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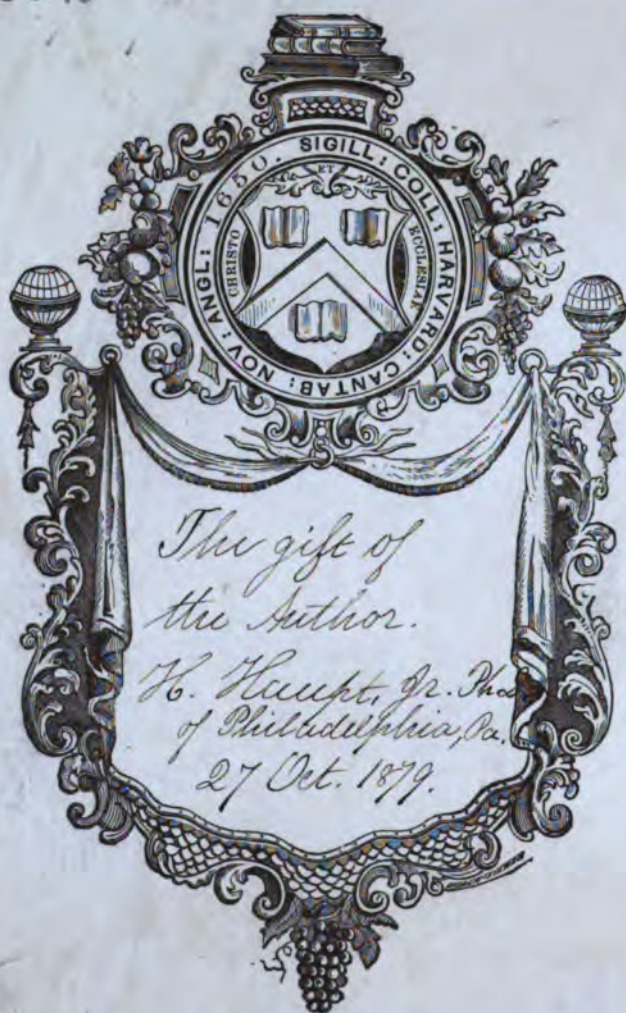
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LIST
OF
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(PUBLISHED IN THE ENGLISH LANGUAGE.)

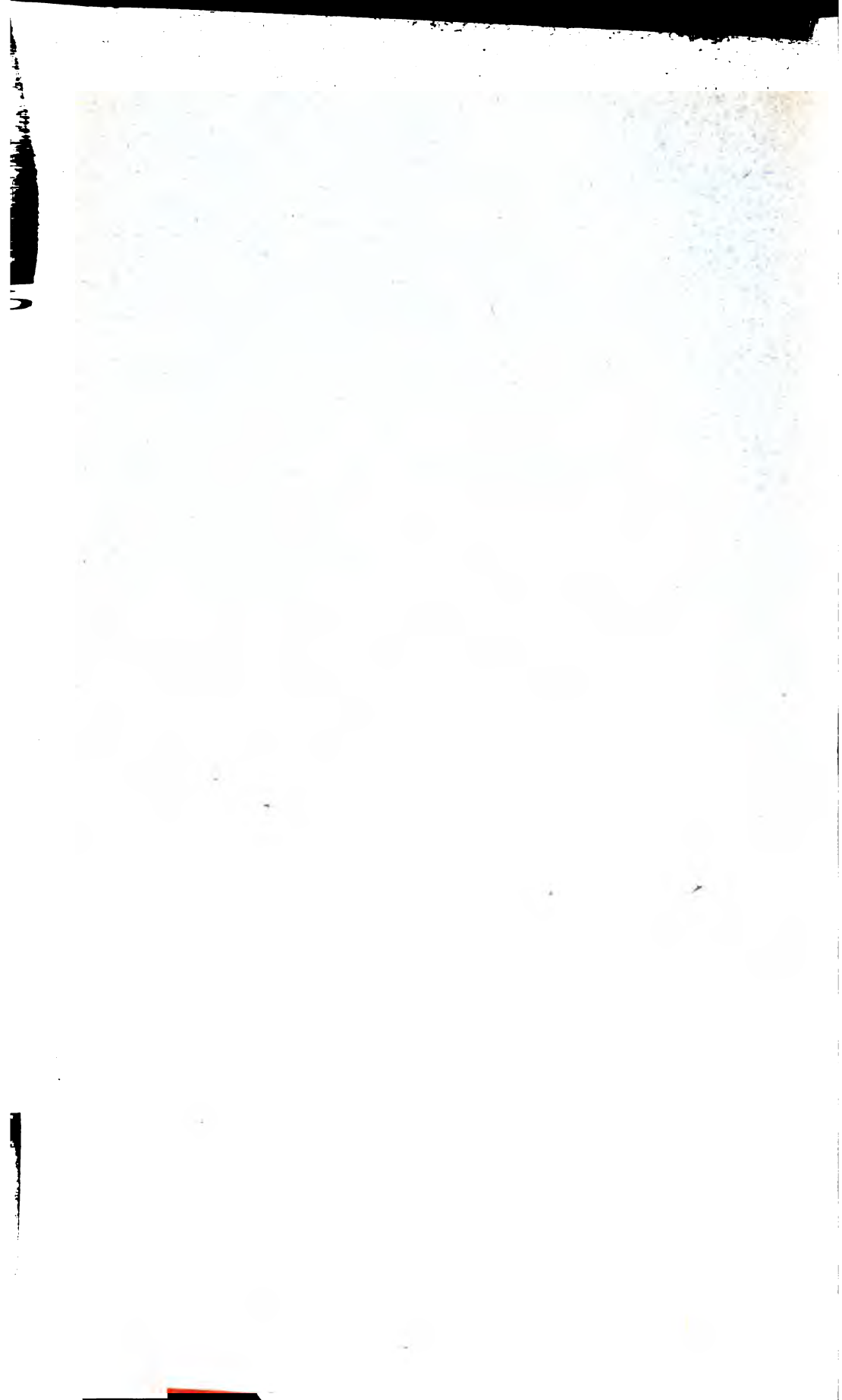
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ERRATA.

To List of Abbreviation, add F. I.=Library of Franklin Institute.

Page 21 should be opposite page 70.

Page 22, Corps of Engineers of the United States Army Professional Papers, read The Professional Papers, &c.

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P R E F A C E.

The preparation of this List was commenced some months since, with the intention of ascertaining the extent of periodical literature containing articles of interest to the engineer, published in the English language, and for that purpose the most important libraries of Washington, Philadelphia, New York, Boston and Cambridge (Mass.), were visited, and authentic information collected relating to the history of each of the periodicals herein mentioned as far as it is possible to do so. In many cases a complete series of the periodicals could not be found.

The list is arranged alphabetically, according to the original title of the publication.

In many instances, where the desired information could not be obtained, a blank has been left after the title, to be filled in at the option of the owner of the Catalogue, and it is earnestly requested that persons who are in possession of facts relating to the publications thus omitted will send such information to the author at the address given below, that the work may be completed by an appendix.

The author acknowledges the valuable assistance rendered him in gleaning the facts of this work, by Miss Mary Lesley, Librarian, Am. Philos. Soc.; Mr. John Bozart, Secretary, Am. Soc. Civil Engineers; Mr. Justin Winsor, Librarian, Harvard College; Mr. P. Lee Philips and Mr. Paul Newhaus, Assistants, Library of Congress; Mr. E. Hildebrand, Librarian of Franklin Institute, and others.

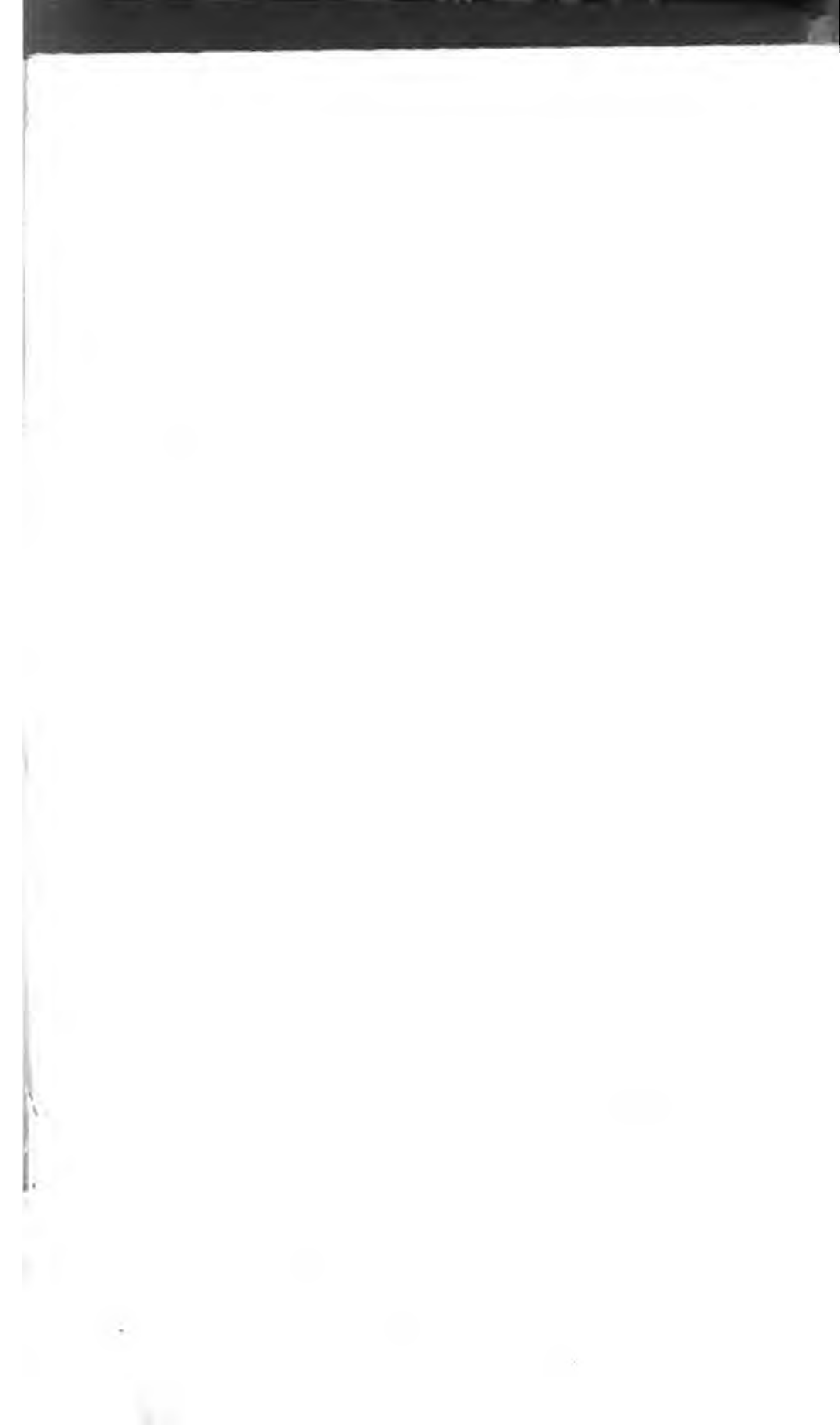
Kerman
H. HAUPT, JR.

"The Rogers Engineering Library,"
University of Pennsylvania.
June 1st, 1879.

ABBREVIATIONS, &c.

The letters at the end of the text refer to the Libraries in which the periodicals thus designated may be found.

- A. P. S.=American Philosophical Society, Philadelphia.
- A. S. C. E.=American Society of Civil Engineers, New York City.
- C. L.=Congressional Library, Washington.
- C. S. M.=School of Mines, Columbia College, New York City.
- H. L.=Library of Harvard College, Cambridge, Mass.
- L. C. P. I.=Library of the Commissioners of Patents for Inventors, London.
- M. L.=Mercantile Library, Philadelphia.
- P. L.=Philadelphia Library.
- R. E. L.=The Rogers Engineering Library, University of Pennsylvania.
- U. of P.=Library of the University of Pennsylvania, Philadelphia.
- L. E. D. U. S. A.=Library Engineers' Department, United States of America.
- A. N. S.=Academy of Natural Sciences.
- U. S. C. S.=Library of United States Coast Survey.
- P. O.=Library of Patent Office.



LIST OF ENGINEERING PERIODICAL LITERATURE.

Academy of Science of St. Louis:

Transactions. St. Louis, U. S., 1856.

* * * * *

Amateur Mechanical Society.—

The Quarterly Journal of the,—an octavo of forty-eight pages letter-press and cuts, issued in London, commencing January, 1871.

Vol. I. Nos. I, II, III, IV, 1871. Ed. by Rev. J. Lubin and T. W. Boord.

Nos. v., vi., vii., viii., 1872. Ed. by T. W. Boord.

Vol. II. No. ix., Jan., 1873; No. x., April, 1873; No. xi., April, 1874; No. xii.;—No. xiii., 1876. Edited by Rev. S. B. Burnay.

R. E. L. Price 1s. 6d. per No.

American Academy of Arts and Sciences.—

Memoirs,—pub. irregularly, commencing 1783. Editor not given.

Vol. I. 1783 to 1785. Boston. Vol. II. to 1793. Boston. Vol. III. to 1809. Vol. IV. to 1818. New Series, Vol. I. to 1833. Cambridge. Vol. II. to 1846; vol. III. to 1848; vol. IV. p. I. II. to 1849; vol. V. to 1855; vol. VI. to 1857; VII to 1860; VIII to 1861; IX. to 1867; X. to 1868. Cambridge and Boston. Ed. by a committee. A. N. S. A. P. S. 8vo.

Proceedings,—selected from the Records, irregular.

Vol. I., from May, 1846, to May, 1848. Vol. II. to 1852; III. 1857; IV. to 1860; V. to 1862; VI. to 1865; VII. to 1868; VIII. to 1873. Boston and Cambridge. Pub. by a committee.

New Series. Vol. I. (or IX. of old series) contains matter from 1873 to 1874; vol. II. (or X. of old), to 1875; vol. III. (or XI. of old), to 1876; vol. IV. (or XII. of old), to 1877; vol. V. (or XIII. of old), p. 1. from May, 1877 to Nov. 1877. Boston. Pub. by a committee. A. N. S. 8vo.

American Artisan and Patent Record: a Weekly Journal of eight pages of letter-press and cuts, devoted to Arts, Mechanics, Manufactures, Mining, Engineering, and Repertory of Patents, pub. in one vol. a year, commencing in May. New York. Folio.

Vol. I. 1864-5. Edited by Brown, Coombs & Co.

In 1865 the New Series was started, and pub. in two vols. a year, commencing May and November. Size reduced.

Vol. I. 1865, to Vol. VI. 1868. Editor not given.

In 1868, Vol. VII., the title was changed to "American Artisan, a Weekly Journal of Art, Mechanics, Manufactures, Engineering, Chemistry, Inventions, and Patents," and issued in January and July.

Vol. VII. 1868, to Vol. XIV. 1872. Editor not given.

In 1872, Vol. XV. of old, or I. of 3d series, the size was increased to small folio, otherwise no change in style. Published by Brown & Allen.

In 1873, Vol. XVI. the sub-title was changed to "_____ and Illustrated Journal of Popular Science, a Weekly Journal of Progress in Science, Arts, Mechanics, Engineering, Chemistry, Inventions, and Patents."

In 1873, Vol. XVII., title changed to "The American Artisan and Illustrated Journal of Popular Sciences, a Weekly Journal of Progress in Science, Art, Mechanics, Engineering, Chemistry, Inventions and Patents."

In 1874, Vol. XVIII. The size was reduced to a large quarto, and published monthly in one volume a year, commencing January. The title changed to "American Artizan, an Illustrated Journal of Popular Science, devoted to the Interests, Education and Advancement of the Producing Class, both Employer and Employed, a Monthly Record of Progress in Art, Science, Mechanics, Chemistry, Invention and Patents."

Vol. XIX., 1875. C. S. M.

American Association for the Advancement of Science:

Memoirs,—pub. by the Permanent Secretary, F. W. Putnam. Salem. Annual, 4to. No. 1, 1875. A. N. S.

Proceedings.—About three hundred and twenty-five pages of letter press with cuts and plates. Pub. under the direction of a committee.

Vol. 1848, pub. by R. W. Gibbs, B. Silliman, Jr., J. B. Rogers, A. L. Elwyn, W. S. Vaux, S. W. Roberts—Committee, Philadelphia.

Vol. 1849, pub. by Prof. J. Wyman, L. Agassiz, B. Peirce, H. Dana, Asa Gray, E. N. Horsford—Committee. Boston.

Vol. 1850, pub. by Prof. L. R. Gibbs and P. C. Gaillara—Committee. Charleston, S. C.

Vol. 1851, ed. by S. F. Baird. Washington.

Vol. 1852, ed. by S. F. Baird. Washington.

Vol. 1853 to 1860, ed. by Joseph Lovering. Washington and Cambridge.

Vol. 1861 to 1865.

Vol. 1866 to 1872, ed. by Joseph Lovering. Cambridge.

Vols. 1873 to 1878, ed. by F. W. Putnam. Cambridge and Salem.

One each year. R. E. L. C. S. M. 8vo.

American Electrical Society:

Journal of the.—Sixty-two pages, issued at irregular periods, by order of the Society, contains original and selected papers on Telegraph, and Electrical Science. Chicago. Pub. by a committee. 8vo.

Vol. I., 1877, Wm. H. Smith, F. W. Jones, E. M. Barton—Committee.

American Engineer: Monthly, eight pages and cuts, devoted to mechanics. Pub. in Baltimore and Washington, in one vol. a year, commencing Oct., 1873. 4to.

Vol. I., 1873; Vol. II., 1874, G. H. & W. T. Howard.

\$1.00 per annum.

* * * * *

American Gas Light Journal and Chemical Repository. See Mining and Petroleum Standard.

American Geographical Society:

Bulletin of the.—Thirty-five pages and maps, pub. New York, at irregular periods, by the Society. Containing minutes of the meetings and papers. 8vo.

Vol. I., 1876 to Vol. IV., 1877. U. S. C. S.

American Geographical and Statistical Society of New York, incorporated May, 22, 1852:

Journal of the.—Number of pages variable, ed. by the Recording Secretary, and pub. in a variable number of volumes a year, commencing in 1859.

Vol. I., 1859; Vol. II., 1860-70; subtitle "and Statistical" dropped in Vol. III., 1870-71; Vol. IV., 1872; Vol. V., 1874; Vol. VI.

American Institute of Architects :
Proceedings.

* * * * *

American Institute of Mining Engineers :

Transactions of the.—Of variable number of pages letter-press and cuts, pub. annually under the direction of the Society. 8vo.

Vol. I., May, 1871, to Feb., 1873 ; vol. II. May, 1873, to Feb., 1874 ; vol. III., May 1874, to Feb., 1875 ; vol. IV., May, 1875, to Feb., 1876 ; vol. V., May, 1876, to Feb., 1877 ; vol. VI., May, 1877, to Feb., 1878 ; ed. Thos. M. Drown, Sec.

American Inventor: Monthly, 16 pages letter-press and cuts, pub. in Cincinnati in one volume a year, commencing February. Small folio

Vol. I. 1878, II.-1879. J. S. Zerbe & J. A. Hughes, editors and proprietors.

F. I. \$1.00 per annum.

American Journal of Mining, Milling, Oil Boring, Geology, Mineralogy, Metallurgy, etc.: Weekly, 12 pages letter-press, pub. in New York, in two vols. a year commencing October and March. Small folio. C. S. M.

Vol. I. 1866. Editor not given.

Vol. II. 1866-1867. Editor Geo. Francis Dawson.

Vol. III. 1867. Editors Western & Co.

In 1867, volume IV., the words "Milling and Oil Boring" left out of title, and "Engineering and Chemistry" inserted.

Volume IV., 1867 ; Vol. V., 1868 ; Vol. VI., 1868 ; Vol. VII., 1869 ; published by Western & Co.

In 1869, Volume VIII., Third Series, title was changed to "The Engineering and Mining Journal," the subtitle omitted.

Volumes VIII., 1869 to XXVI., 1878, published by Western & Co. R. W. Raymond & R. P. Rothwell, Editors.

In 1879, Vol. XXVII., "The Polytechnic Review" was incorporated with this publication, so that the present title is

"The Engineering and Mining Journal," and edited by R. P. Rothwell, R. W. Raymond, and Wm. H. Wahl.

Price United States and Canada post-paid, (in advance,) \$4.00 ; Europe post-paid (in advance,) \$5.00 = 20s. ; South America post-paid (in advance,) \$6.00.

American Journal of Science. See "American Journal of Science and Arts." C. S. M.

American Journal of Science and Arts: Monthly, number of pages variable, published in New Haven, in two vols. a year, commencing May and November.

First Series as "American Journal of Science," Vol. I., 1818 to L. 1847. Conducted by Benjamin Silliman.

Second Series as: "American Journal of Science and Arts," published in New Haven Monthly as before, commencing January and July. Vol. I. 1846 to L. 1870, conducted by B. Silliman, B. Silliman, Jr., James M. Dana, Prof. Asa Gray, L. Agassiz, and Wolcott Gibbs.

Third Series, title same, conducted by B. Silliman, Jr., and others. Vol. I., 1870 to XVI., 1878. \$6.00 per annum. 8vo. C. S. M. A. P. S. R. E. L.

American Machinist: A Journal for Machinists, Engineers, Founders, Boiler Makers, Pattern Makers, and Blacksmiths, Monthly 16 pages pub. in New York, in one vol. a year, commencing November, 1877. Small folio.

Vol. I., 1877-78, edited by H. B. Miller and Jackson Bailey.

\$1.00 per year.

American Manufacturer and Iron World: (a union of the "Trade of the West," "The Manufacturers' Review," "The Iron World," "The Protectionist," and the "National Oil Journal,") Weekly, 20 pages letter-press, devoted to the Iron, Steel, Hardware and Machinery interests of the United States, and especially to Iron and Steel Metallurgy, pub. in Pittsburg in two vol. a year, commencing May and November. Folio.

"Trade of the West," Vol. I., 1862 to Vol. X., 1871. 1 Vol. per year; "American Manufacturer and Trade of the West," Vol. XI., 1872 to Vol. XIV., 1874. 2 Vols. per year; "American Manufacturer and Iron World," Vol. XIV., 1874 to XXIV., 1878-9, 2 Vols. per year; now edited or published by The National Iron and Steel Publishing Co., in XI. Volumes. Title changed to American Manufacturer and Trade of the West, (at the incorporation of the Trade of the West and the Manufacturer's Review). In Vol. XIV., title changed to American Manufacturer and Iron World, (at the purchase of the Iron World by the "American Manufacturer and Iron World,") editors not given prior to 1877. From Sept. 1st, 1877, William Kent, M. E., editor. The Trade of the West started in 1862, F. Woods publisher. In 1872, The American

Manufacturer and Trade of the West, published by McKnight & Woods, afterwards F. Woods & Co., and in 1873 by the National Iron and Steel Publishing Co., F. Woods Manager and Treasurer.

American Mechanics' Magazine: containing useful, original matter, on subjects connected with Manufactures, the Arts and Sciences, as well as selections from the most approved Domestic and Foreign Journals, conducted by associated mechanics, Illustrated Weekly of 16 pages letter-press and cuts, pub. in two vols. a year, commencing in February, 1825.

Vol. I., 1825-26, Vol. II., 1826, ed. not given. 8vo.

American Miller. Monthly. Price \$1.00.

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American Mining Index: Weekly, number of pages letter-press, variable, devoted to the Mineral and Metallic Resources of the United States, pub. in New York in two vols. a year. Vol. 1., 1865. C. S. M.

American Monthly Journal of Geology and Natural Science: number of pages, variable, ed. by G. W. Featherstonhaugh in one vol. a year, commencing July. Philadelphia.

Volume 1., 1831. P. L. 8vo.

American Philosophical Society, Philadelphia.—

Proceedings.—An octavo volume, containing the account of the meetings of the society, pub. by order of the same. Philadelphia.

Vol. I. for 1838 to 1840; vol. II. to 1843; vol. III.—Celebration of 100th Anniversary, May 25th to 30th, 1843;—vol. IV. from June, 1843, to Dec., 1847; vol. V. to 1853, inclusive; vol. VI. to 1858, inclusive; vol. VII. to 1861, inclusive; vol. VIII. to 1862, inclusive; vol. IX. to 1864, inclusive; vol. X. to 1868, inclusive; vol. XI. to 1870, inclusive; vol. XII. to 1872, inclusive; vol. XIII. to 1873, inclusive; vol. XIV. to 1875, inclusive; vol. XV. to 1876, inclusive; vol. XVI. to 1877, inclusive; vol. XVII. to 1878, inclusive.

Transactions.—A large quarto, containing four hundred and fifty-four pages of letter-press with plates and maps, published by the society.

Vol. I., 1768; II., to 1786; III., to 1793; IV., to 1799; V., to 1802; VI., to 1809. Nothing then till

New Series, Vol. I, to 1818; vol. II. to 1825; vol. III. to 1830; vol. IV. to 1834; vol. V. to 1837; vol. VI. to 1839; vol. VII. to 1841; vol. VIII. to 1843; vol. IX. to 1846; vol. X. to 1852; vol. XI., to 1857 parts I., II., III.; vol. XII., to 1862 parts I., II., III.; vol. XIII., to 1869 parts I., II., III.; vol. XIV., to 1870 parts I., II., III.; vol. XV., to 1873, parts I., II. U. of P. A. P. S. F. I. A. N. S.

American Railroad Journal, and Advocate of Internal Improvements: weekly of 16 pages letter-press, pub. in New York, in two vols. a year, commencing January and July. \$5.00 per annum. 4to.

Vol. I., 1832, part I., II.; vol. II., 1833, part I., II.; vol. III., 1834, part I., II.; vol. IV., 1835; vol. V., 1836, D. K. Minor, ed. Vol. VI., 1837, D. K. Minor & Geo. C. Schaeffer, ed.

In 1838 the Journal was incorporated with the *Mechanic's Magazine*, with the following title:

"American Railroad Journal and Mechanic's Magazine:"
Semi-monthly of 40 pages. New York, two vols. a year, commencing January and July. Ed. by D. K. Minor and G. C. Schaeffer. 8vo.

New Series, vol. I. (Vol. VII. of old series) 1838.

Vols. II.—III., 1839; IV., 1839; V., 1840; VI., 1841; VII., 1841; ed. by G. C. Schaeffer and Egbert Hedge.

Vols. VIII., 1842; IX., 1842; ed. by Geo. C. Schaeffer.

Third Series, vol. I. (XVI of old,) 1843, ed. by Geo. C. Schaeffer and D. K. Minor; vol. II., 1844, D. K. Minor.

Second Quarto Series: title changed to—

"American Railroad Journal, and General Advertiser, for Railroads, Canals, Steamboats, Machinery and Mines, Established 1831." Ed. by D. K. Minor.

Vol. I., (XVIII. of old series) 1845; II., 1846; III., 1847; and IV., 1848.

American Railroad Journal and Iron Manufacturer and Mining Gazette, In 1848, Vol. IV., the title changed to,

In 1849, Vol. V. of 2nd Quarto Series, the sub-title again changed "to Steam, Navigation, Commerce, Mining and Manufactures." One vol. a year after this date, pub. in New York.

Vol. V., 1849, ed. by H. V. Poor, J. T. Hodge, C. T. James, and W. Butt. Howson.

Vol. VI., 1850, edited by J. T. Hodge, C. T. James and H. V. Poor; Vol. VII., 1851 to XIV. (or XXXI., old series) 1858, and XV., 1859, ed. by H. V. Poor.

Vol. XV., 1859, title changed by adding after "Commerce," the words "Finance, Insurance, Banking, Mining, Manufactures."

Vol. XVI., 1860, H. V. Poor; vol. XVII., 1861, edited by H. V. Poor and J. H. Schultz.

In 1862, Vol. XVIII., the word "Engineering" was inserted instead of "Insurance."

Volume XVIII., 1862, edited by H. V. Poor and J. H. Schultz; Vol. XIX., 1863 to XXXII., 1876, ed. by J. H. Schultz. \$5.00 per annum.

American Railway Review: Weekly, eight pages letter-press, devoted to Public Works, Patents, Finance and Engineering, pub. by the American Railway Bureau, New York. Ed. by Alex. Mann. 4to.

Vols. I., 1859 to V., 1861. R. E. L.

American Register or Repertory of Science, Philadelphia.
P. L.

* * * * *

American Society of Civil Engineers, (Incorporated 1852):

Proceedings.—A monthly of twenty-three pages letter-press, containing Minutes of the Society, New York. 8vo.

Volume I. from November, 1873, to December, 1875; Vol. II. from January to December, 1876, edited by Secretary; vol. III., 1877; vol. IV., 1878.

Transactions.—Monthly, eleven pages letter-press, increased to thirty-seven, with plates, containing the papers read at the meetings of the Society, editor not given: pub. by the Society. New York. 8vo.

Vol. I. from 1867 to 1871; II. from 1873 to 1874; IV., 1875; V., 1876; VI., 1877; VIII., 1878, ed. by the Secretary, under the direction of the Committee on Libraries.

Note.—The vols. of Proceedings are associated with Transactions.
L. E. D. U. S. A. F. I. R. E. L

Annals of Philosophy, or Magazine of Chemistry, Mineralogy, Mechanics, Natural History, Agriculture, and the Arts:
A monthly, number of pages variable, pub. London, in two vols. a year, commenced in 1813, by Thomas Thompson. 8vo.

Vol. I., 1813; II., 1813; III. and IV., 1814; V. and VI., 1815; VII. and VIII., 1816; IX. and X., 1817; ed. by Thomas Thompson; XI. and XII., 1818, edited by Thos. Thompson, Arthur Aiken, John Bostich; XIII. and XIV., 1819; XV., XVI., 1820, edited by Thos. Thompson.

New Series. 2 vols. a year, commencing January and July.

Vol. I. and II., 1821; III. and IV., 1822; edited by Richard Phillips. Vol. V. and VI., 1823; VII. and VIII., 1824; IX. and X., 1825; XI. and XII., 1826; this seems to have been continued as the

Philosophical Magazine, or Annals of Chemistry, Mathematics, Astronomy, Natural History, and General Science, with sub-title, **New and United Series of the Philosophical Magazine and Annals of Philosophy**: 48 pages letter-press, pub. in London, in 2 vols. a year, commencing January and July. 8vo.

Vols. I., 1827 to XI., June, 1832, edited by Richard Taylor and Richard Phillips. See Chronological Table. A. N. S.

Annals of Philosophy, Natural History, Chemistry, Literature, Agriculture, and the Mechanical and Fine Arts: Four hundred and eighty pages, pub. annually in London, by Dr. F. Garnett. [The work is divided under three heads: Science, Arts, and Literature.] 8vo.

Vol. I., 1800, edited by Dr. Garnett; II., 1801, edited by C. & A. Aikin, (Dr. G. deceased); III., 1804, not given. P. L.

Annual Retrospect of Engineering and Architecture. (Burnell.) London, 1862.

* * * * *

Annals of Science: a record of the Inventions and Improvements in Applied Science, pub. on the first and fifteenth of each month, by Hamilton L. Smith, eight pages of letter-press. R. E. L. 8vo.

Annals of Scientific Discovery, or Year Book of Facts in Science and Arts, exhibiting the most important discoveries and improvements in Mechanics, Useful Arts, Chemistry, Mineralogy, Geology, Geography, &c.: 428 pages, cuts, ed. by D. A. Wells and Geo. Bliss, Jr., et al. Annually. Boston. 12mo.

Vols. for 1850, 1851, edited by D. A. Wells and Geo. Bliss, Jr.

Vols. for 1852, to 1865, edited by Daniel A. Wells.

Vols. for 1866, 1867, 1868, 1869, edited by Samuel Kneeland.

Vol. for 1870, edited by John Trowbridge, Samuel Kneeland, W. R. Nichols.

Vol. for 1871, edited by John Trowbridge, W. R. Nichols, C. R. Cross.

A. N. S. U. of P.

Annual Record of Science and Industry: issued annually, number of pages variable, ed. by S. F. Baird, assisted by eminent men of Science. Commenced in 1871. New York. 8vo.

Vols. for 1871 to 1876, edited by S. F. Baird, et al. A. N. S.

Annual Report of the Chief of Engineers to the Secretary of War: Annual record of the operations of the United States' Engineers, each volume containing about twelve hundred pages of letter-press with plates, bound in parts. Washington. 8vo.

Vol. for 1873; 1874, parts I., II.; 1875, parts I., II.; 1876, parts I., II., III. R. E. L. C. S. M.

Annual Report of the Minister of Public Works on the work under his control, printed by order of the House of Commons: an octavo of 200 pages letter-press and plates, published in Ottawa.

* * * * *

Annual Report of the National Life Boat Institution: 121 pages issued Quarterly in London. 8vo.

Reports for 1872 to 1876. L. C.

"Annual Report of the Warden of the Standards," on the Proceedings and Business of the Standard Weights and Measures Department of the Board of Trade: 25 to 138 pages, pub. in London. 8vo,

Report 1st, ; 2d, ; 3d, ; 4th, 1869 to 1870; 5th, 1870, to 1871; 6th, ; 7th, 1872, to 1873; 8th, 1873 to 1874. U. S. C. S.

Annual Retrospect of Engineering and Architecture: 372 pages letter-press; a record of Progress in the Science of Civil, Military and Naval Construction, pub. in one vol. a year. London, commencing January. 8vo.

Vol. I., 1862, ed. by G. R. Burnell.

Appalachia: 62 pages letter-press, cuts and maps, published by the Appalachian Mountain Club. Boston: at irregular periods, devoted to Geology and kindred sciences. 8vo.

No. I., 1876; III., 1877; IV., 1878, ed. not given. A. P. S.

Appleton's Mechanics' Magazine and Engineers' Journal :

Monthly, twenty-four letter-press pages and engraved plates, issued in one vol. for each year. 4to.

Vols. I and II., 1851 and 1852, edited by Julius W. Adams, New York.

Vol. III., 1853, edited by Thos. D Stetson, New York.

Here the publication ceased. U. of P.

Architectural Magazine, and Journal of Architecture, Building

and Furnishing : Monthly, 48 pages, pub. in one vol. a year, commencing (after the first vol. which commenced in March) in January. London. 8vo.

Vol. I., 1834, to V. 1838, ed. by J. C. Loudon.

At this date publication ceased. P. L. L. C.

Archives of Useful Knowledge, a work devoted to Commerce,

Manufactures, Rural and Domestic Economy, Agriculture and the Useful Arts : Quarterly, 124 pages letter-press, pub. in one vol. a year, at Philadelphia, commencing July, 1810. 8vo.

Vol. I., 1810; II., 1811; III., 1812, edited by James Mease.

F. I.

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Army and Navy Chronicle : Weekly, 16 pages, devoted to Marine information, pub. at Washington, in two vols. a year, commencing January and July. 4to.

Vol. I., 1835, ed. by B. Hemans.

New Series, size reduced to octavo.

Vol. II., 1836 to XII., 1841, ed. by B. Hemans.

At this date the publication merged into—

Army and Navy Chronicle, and Scientific Repository, being a

continuation of Heman's Army and Navy Chronicle : Monthly, 16 pages letter-press, pub. in two vols. a year, commencing January and July. Washington. 8vo.

Volume I., 1843; II., 1843; III., 1844, edited by Wm. L. Force.

At this date the publication ceased.

Army and Navy Official Gazette :

containing reports of Battles, also important orders of the War Departments, Records of Courts Martial, &c., pub. Washington, in weekly parts, 16 pages; issued under the authority of the War Department, in one vol. a year, commencing July. 4to.

Vol. I., 1863-64; II., 1864-65, ed. not given.

Price \$10.40 per annum.

Association of American Geologists and Naturalists. Reports of Meetings embracing the Proceedings and Transactions: pub. under the direction of a committee. 8vo.

Report of the meetings, 1st, 2d and 3d, Boston, 1843.

A. N. S.

Associations of Foremen Engineers and Draughtsmen: Journal. See Foremen Engineer and Draughtsman.

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Association for the Prevention of Steam Boiler Explosions: Manchester. Chief Engineer's Reports. Monthly, irregular number of pages, printed for circulation amongst the members. 8vo.

Reports for 1867 to 1876.

Astronomical Society of London:

Memoirs of.—530 pages and plates, pub. by order of the Council of the Society, at irregular periods.

Vol. I., 1822, to XLIII, 1875-77. 4to.

Austrian Society of Engineers and Architects.

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Board of Arts and Manufactures, for Upper Canada:

The Journal of The.—Monthly, thirty-one letter-press pages with cuts, pub. at the Board Rooms, Mechanic's Institute, Toronto, in one vol. a year. 8vo.

Vol. I., 1860. A. N. S.

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Board of Supervising Inspectors of Steam Vessels:

Proceedings of the.—Annual, variable number of pages, containing Minutes of the Meetings. Published in Washington, D. C. 8vo.

Vols. 1853 to 1878. Ed. not given. C. S. M.

Boston Society of Civil Engineers.

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British Archæological Association : Journal. London, 1845-57.

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British Association for the Advancement of Science :

Reports of the Annual Meetings : variable number of pages,
pub. in London. 8vo.

Report of the first and second meetings, 1831-32.

Reports of the third, 1833, to the forty-fifth, 1875-76. Editor
not given.

C. S. M. A. P. S. A. N. S.

British Association for the Advancement of Science :

Hardwicke's Reports. London, 1865-66.

L. C. P. I.

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British Association of Gas Managers:

Report of proceedings. London, 1864.

L. C. P. I.

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British and Foreign Mechanic. See The English Mechanic.

British Mechanic and Scientific Instructor. London, 1869-70.

L. C. P. I.

Building News and Engineering News : weekly, twenty-four
pages letter press, cuts and plates, pub. in London in — vols.
a year, commencing 4to.

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Building Societies and Land Companies' Gazette. London,
1871. L. C. P. I.

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Builders' Weekly Reporter. London, 1875.

L. C. P. I.

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Cambridge Philosophical Society. (Established in 1819.)

Transactions of the,—at irregular periods. Cambridge, Eng., Pub.

Vol. I., part I., 1821; Vol. II., 1827; Vol. III., 1830; Vol. IV., 1833; Vol. V., 1835; Vol. VI., 1838; Vol. VII., part I., 1839, part II., 1841, part III., 1842; Vol. VIII., 1849; Vol. IX., part I., 1851; part II., 1851.

Canadian Patent Office Record and Mechanics' Magazine.
Montreal, 1873.

Canada, \$2.00 per annum. United States, \$2.50 per annum.

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Carriage Builders' and Harness Makers' Art Journal. London,
1859-63.

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Carpentry and Building: a Monthly of twenty pages letter-press and
cuts, devoted to the constructive arts; pub. in one vol. a year,
commencing Jan. New York. Small folio.

Vol. I., 1879, pub. by David Williams. Price \$1.00, post-paid.

Chief of Engineers:

Report of the.—See Annual Report of the Chief of Engineers.

Cleveland Institution of Engineers:

Proceedings of. L. C. P. I.

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Coach Builders' and Saddlers' Journal. See The Coach Builders'
and Saddlers' Journal.**Coach-Makers' International Journal:** "devoted to the interests of
the trade and the improvement of the workman in his material,
social, and intellectual capacities." Monthly, sixteen to twenty-
four pages of letter press and cuts, with plates, pub. in Phila-
delphia, in one vol. a year, commencing September. 4to.

Vol. I., 1865-66 to Vols. VI. 1870-71, VII. I. D. Ware,
pub. and ed. Vol. VIII.—

In 1873, Vol. IX., the title was changed to "The Carriage Monthly,"
a practical journal devoted exclusively to the interests of the trade,
and the size increased to small folio.

Vol. IX., 1873-74 to XII., 1876-77. I. D. Ware, editor and
publisher.

CHRONOLOGICAL TABLE.

1798. "The Philosophical Magazine" was started in London, by Alex. Tilloch.

1813. "Annals of Philosophy" started in London, by Thomas Thompson.

1819. Arthur Aiken and John Bostoch added to the editorial staff.

1821. New Series, ed. Rich. Phillips, Aiken and Bostoch omitted.

1823. Richard Taylor added to the staff.

1819. "The Edinburgh Philosophical Journal" started by Dr. David Brewster and Prof. Jameson, at Edinburgh.

1824. At the close of vol. tenth the agreement made by Dr. Brewster with Prof. Jameson, and the publisher having expired, and difficulty arising about the title of the new edition, Dr. Brewster withdrew, and in

1826. "The Edinburgh Journal of Science" was commenced by Dr. Brewster.

1827. Merged into the Philosophical Magazine, or Annals, &c.

1827. Richard Phillips united with Richard Taylor and ed. "The Philosophical Magazine, or Annals of Chemistry, Mathematics, &c. Sub-title "New and United Series of the Philosophical Magazine and Annals of Philosophy."

1829. New Series commenced, sub-title dropped, and pub. in Edinburgh, London and Dublin.

1832. Dr. Brewster united with Richard Taylor and Richard Phillips, and they together ed. "The London and Edinburgh Philosophical Magazine and Journal of Science." The Edinburgh Journal of Science ceased.

1827, after the dispute was settled, Prof. Jameson changed the title to "Edinburgh New Philosophical Journal."

1832. "The London and Edinburgh Philosophical Magazine and Journal of Science" a union of "The Philosophical Magazine, or Annals of Chemistry, Mathematics, and the Edinburgh Journal of Science" was started.

1840. The staff of "The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science," London, Dr. Brewster, Edinburgh, Jameson.

1841. Wm. Jardine added to the staff.

1842. Dr. Brewster resigned from the staff.

1843. Wm. Jardine added to the staff.

1844. Dr. Brewster resigned from the staff.

1845. Dr. Brewster resigned from the staff.

1846. Dr. Brewster resigned from the staff.

1847. Dr. Brewster resigned from the staff, leaving the eds. Robert Jameson and Wm. Jardine.

1848. Dr. Brewster resigned from the staff.

1849. Dr. Brewster resigned from the staff.

1850. Dr. Brewster resigned from the staff. The eds. are at present, 1850, Robert Jameson, Wm. Jardine, Aug. Mattieson.

1833. The word "New" was dropped from the title.

1854. Prof. Jameson deceased, and Journal conducted by Lawrence Jameson.

1855. New series ed by Thomas Anderson, Sir Wm. Jardine and J. H. Ballou.

1856. H. D. Rogers added to the staff.

Colburn's Naval and Military Magazine. See United Service Journal and Military Magazine.

Colton's Journal of Geography and Collateral Sciences: a record of discovery, exploration and survey, issued quarterly from Colton's Geographical establishment; thirty-two pages and maps, pub. in New York at irregular periods.

Number I., October, 1867; No. II., January, 1868; No. III., April, 1868; No. IV., April, 1869. Ed. not given. 8vo.

U. S. C. S.

Connecticut Academy of Arts and Sciences:

Transactions of. 206 pages letter press and plates, issued at irregular periods, at New Haven. 8vo.

Vol. I., part I., 1866, part II., 1867-71; Vol. II., part I., 1870, part II., 1873; Vol. III., part I., 1876.

A. P. S.

Cornell University:

Bulletin of the.—Sixty three pages letter-press with plates; Ed. not given; published at Ithaca, N. Y., in vols. a year. 8vo.

Vol. I., Nos. 1 and 2, 1874.

A. N. S.

Corps of Engineers, Madras Presidency: Reports, &c. Madras, 1856-59.

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Corps of Topographical Engineers (United States): Professional Papers. Philadelphia, 1861.

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Corps of Engineers of the United States Army: Professional Papers. New York, 1868.

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Corps of Royal Engineers:

Papers on Subjects connected with the Duties of the.—A collection of papers pub. annually in one vol., containing about one hundred and fifty-four pages of letter-press and plates. London. 4to.

Vol. I., quarto series, 1837, edited by G. C. G. Ellicombe and F. W. Mulcaster.

Vol. II. to VIII., 1838 to 1844, ed. by W. Denison.

Vol. IX., 1848, ed. by Henry Jones.

Vol. X., 1849, ed. by G. G. Lewis and J. Williams.

After an interval of a year the New Series (octavo) appeared.

Vol. I., 1851, to IV., 1855, ed. by G. G. Lewis and J. Williams.

Vol. V., 1856, to VIII., 1861, ed. by P. J. Bainbridge.

Vol. IX., 1862, to XIX., 1871, ed. by C. S. Hutchinson.

R. E. L.

Daily Bulletin of the Signal Service of the United States :

Monthly publication of one hundred and ninety-one pages of letter-press and maps, pub. by authority of the Secretary of War, giving the Weather Reports, and Signal Service of the United States Army, with Synopsis, Probabilities and Facts for the month, prepared under the direction of Albert J. Myer, Washington. Commenced September, 1872. 4to.

September, 1872, to December, 1876.

Design and Work. London.

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Dublin Philosophical Journal and Scientific Review : two hundred and eighty-four pages, issued in two parts a year, March and November, ed. not given. Pub. London, Edinburgh, and Dublin. 8vo.

Vol I., 1825. A. N. S. P. L.

Dublin University Philosophical Society :

Transactions.—Issued at irregular periods in Dublin. 4to.

Vol. I., 1737; II., 1738; III., 1739; IV., N. D.; V., N. D.; VI., 1797; VII., 1800; VIII., 1802; IX., 1803; X., 1806; XI., 1810; XII., 1815; XIII., 1818; XIV., 1825; XV., 1828; XVI., 1830; XVII., N. D.; XVIII., N. D.; XIX., N. D.; XX., N. D.; XXI., N. D.; XXII., N. D.; XXIII., 1859; XXIV., 1860; XXV., 1872; XXVI., 1876; ed. not given.

Edinburgh Geological Society :

Transactions of the.—Issued in Edinburgh at irregular periods.

Ed. not given. 8vo.

Number I., Sessions 1846, to 1859, Edinburgh, 1870.

Number II., Part I., II., III., Edinburgh, 1874.

Number III., Part I. C. S. M.

Edinburgh Journal of Natural and Geographical Science :

Monthly of eighty pages, devoted to Science generally, pub. in
Edinburgh in several vols. a year. 8vo.

Vol I., 1830 ; II., 1830, conducted by Wm. Ainsworth & H. H.
Cheek.

New Series, Vol. I., 1830, conducted by H. H. Cheek.

Electrical Magazine. Walker. London. 1845-47.

L. C. P. I.

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Electric Telegraph Review. London. 1870.

L. C. P. I.

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Edinburgh Journal of Natural and Geographical Science :

Monthly, eighty pages letter-press ; devoted to Science generally,
pub. in Edinburgh, in several vols. a year. 8vo.

Vol. I., 1830 ; vol. II., 1830, conducted by Wm. Ainsworth and
H. H. Cheek.

New Series, vol. I., 1830, conducted by H. H. Cheek.

Electric Magazine. (Walker.) London, 1845-47. L. C. P. I.

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Electric Telegraph Review. London, 1870. L. C. P. I.

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Emporium of Arts and Sciences : an octavo of five hundred pages
with cuts and engravings, ed. by Thos. Cooper, of Carlisle.
Pub. in Philadelphia.

First Series unknown.

New Series, vol. I., 1812 to III., 1814.

The early history of this Journal is unobtainable. U. of P.

Engineer. Philadelphia, 1860. ———

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Engineer Architect and Surveyor. See "The Surveyor and Engineer."

Engineers' Club of Philadelphia.

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Engineers' Club of St. Louis.

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Engineers' Club of the North-west:—

Proceedings.—Annual, of an irregular number of pages, pub. in Chicago. 8vo.

Vol. I., 1876, ed. not given.

Engineers' Journal, &c., of India and the Colonies. Calcutta, 1858-69. L. C. P. I.

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Engineer and Machinist. Manchester, 1850-51.

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Engineer of the Pacific. San Francisco, 1878, ———

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Engineering: illustrated weekly, devoted to Engineering and allied subjects; contains from seven to twelve pages of letter-press and cuts, with an occasional supplement of working drawings. Two vols. per year, issued January and July. Ed. successively by Zerah Colburn, (1866-69), and W. H. Maw and James Dredge, Vol. I., 1866, to Vol. XX., 1876. Price \$8.91, 35s. 8d. per annum. R. E. L. F. I. C. S. M.

Engineering and Building Times. London, 1871.

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Engineering and Mining Journal. See "American Journal of Mining, Milling, Oil Boring," &c.

"**Engineering News.**" See "The Surveyor and Engineer."

"**English Mechanic and Mirror of Science.**" See "The English Mechanic and Mirror of Science."

"**Fisher's National Magazine and Industrial Record.**" See "National Magazine and Industrial Record."

Franklin Institute, of the State of Pennsylvania:

Journal,—monthly, devoted to the Mechanic Arts, Manufactures, General Science, and the recording of American and other patented inventions. Two vols. a year, commencing January, and July. Monthly parts contain about sixty-eight pages of letter-press and cuts, with plates. Philadelphia. 8vo.

Commenced in 1826 as "The Franklin Journal and American Mechanics' Magazine."

Vol. I., 1826 to Vol. IV., 1827, ed. by Dr. Thos. P. Jones and Ph. Dobson.

In 1828 the title was changed to the above, and issued as a **New Series**, pub. successively by Thos. P. Jones and Committee.

Vol. I., 1828 to Vol. XXVI., 1840 regular.

Third Series, Vol. I., 1841, to Vol. LXXVII., 1879.

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Forge and Lathe. London, 18—.

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Geological and Polytechnic Society of the West Riding of Yorkshire :

Proceedings,—697 pages, pub. at irregular periods, in Leeds. 8vo.

Vol. I., 1839 to 1842 ; Vol. II., 1842 to 1848 ; Vol. III., 1850 to 1852 ; Vol. IV., 1859 to 1868 A. N. S.

In 1869, title changed to, " Reports of the Proceedings of."—123 pages. 8vo.

1869, 1870, New Series, 1871-2, ed. not given.

Geological Society of Glasgow :

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Vol. I., 1868 ; Vol. II., 1865, parts I., II., III.; Vol. III., 1860, part I. and II., and Supplement ; Vol. IV., 1871, part I. and II.; Vol. V., 1875, part I. A. P. S.

Geological Society of London :

Transactions,—a variable number of pages, pub. in London at irregular periods.

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Quarterly Journal of the,—a variable number of pages, pub. in London annually, one vol. a year, in several parts. 8vo.

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Geological Society of Pennsylvania :

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Gill's Technical Repository, &c. See "The Technical Repository."

Greenhough's Polytechnic Journal. New York, 1853-54. See "The American Polytechnic Journal."

Hanover Society of Engineers and Architects.

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Hardwich's Reports. London. See "British Association for the Advancement of Science."

Heman's Army and Navy Chronicle. See "Army and Navy Chronicle."

Herapath's Railway and Commercial Journal. See "The Railroad Magazine and Annals of Science."

Herapath's Railway Magazine and Commercial Journal, &c. See "The Railroad Magazine and Annals of Science."

Hub, and New York Coachmakers' Magazine. New York, 1858. L. C. P. I.

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Hydraulic Engineer, Cincinnati. M. \$1.50. \$1.40. L. C. P. I.

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Illustrated Wood Worker, for Joiners, Cabinet Makers, Stair Builders, Carpenters, Car Builders, &c.: monthly journal of 16 pages of letter-press and plates, pub. in New York, in—vol. a year, commencing January. 8vo.

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Illustration of Art Manufacture. Monthly. London.

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Industrial Art: a review of Technical and Scientific education at home and abroad; variable number of pages, pub. monthly in London. Price \$3.75. 15s.

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Institute of British Architects. See "Royal Institute of British Architects." S. C. P. I.

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Institution of Naval Architects:

Transactions. London, 1860——— L. C. P. I.

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Institution of Surveyors:

Transactions. London, 1868——— L. C. P. I.

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Inventors' Gazette. London, 1857. L. C. P. I.

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Inventors' Institute:

Journal. See "Scientific Review." L. C. P. I.

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Journal,—a vol. of 543 pages of letter-press and cuts, containing in an appendix the Proceedings,—pub. annually, in London, commencing in 1876. 8vo.

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Journal of Applied Science : a monthly record of progress in the Industrial Arts: pub. in London, containing 16 pages, one vol. a year, commencing January, 1870. Folio.

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Journal of Design. London, 1849-52. L. C. P. I.

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Journal of Elemental Locomotion. London, 1832-33. L. C. P. I.

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Journal of Industrial Progress. L. C. P. I.

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Journal of Industry. London, 1874—

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Journal of Natural Philosophy, Chemistry, and the Arts :
a variable number of pages, issued in London, at irregular periods, in from one to four vols. a year. 4to.

Vol. I., 1797; Vol. II., 1799; Vol. III., 1800; Vol. IV., 1801;

Vol. V., 1802, ed. by Wm. Nicholson.

In 1803, the Quarto edition stopped, and an octavo has started under the title of—

Nicholson's Journal of Natural Philosophy, Chemistry, and The Arts, illustrated with Engravings.

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Journal of the Telegraph: of from 8 to 16 pages and cuts, a "serial record of the progress of the Telegraph, and of Electric Science," pub. in New York, in one vol. a year commencing December, 1867. 4to.

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Leffel's Illustrated Mechanical News: a monthly of 8 pages letter-press and cuts, devoted to Science and the Mechanical and Industrial Arts, pub. by James Leffel & Co., in one vol. a year, commencing March, 1871, at Springfield, Ohio. Folio.

Vol. I., 1871, to IV., 1874, ed. not given. F. I. L. C.
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Literary and Philosophical Society of Liverpool:

Report of the Proceedings,—an octavo vol. issued in Liverpool and London, at irregular periods.

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Transactions,—issued at irregular periods, pub. in Liverpool. 4to.

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Journal,—Vol. of 105 pages and plates, pub. in Liverpool, in one vol. a year, containing minutes of the meetings and annual report. 8vo.

Session I., 1837, (?) to XXXVI., 1873, ed. not given.

U. S. P. O.

London Association of Foreman Engineers:

Journal. See "Foreman Engineer and Draughtsman."

London Electrical Society:

Transactions and Proceedings. London, 1841.

Proceedings. London, 1841-43.

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London Gazette (Official). London, 1852——— L. C. P. I.

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London Institution:

Journal. London, 1871———

L. C. P. I.

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London Mechanics' Register. London, 1824-26.

See also "New London Mechanics' Register."

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London Miller.

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London Polytechnic Magazine. See "Polytechnic Review."

L. C. P. I.

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Long Island Journal of Philosophy, and Cabinet of Variety :
a monthly of 47 pages letter-press, ed. by Samuel Fleet ; issued
in—vol. a year. 8vo. Huntington, L. I. (1825). A. N. S

Manchester Scientific Students' Association :

Reports of,—pub. in Manchester and Salford, annually, containing
a variable number of pages letter-press 8vo. A. N. S. A. P. S.

Reports for 1862 to 1874, Manchester, ed. not given ; 1875 to
1876, Salford, ed. not given.

Report for 1865 has an appendix.

Manufacturer and Builder. New York. See "The Manufacturer
and Builder."

Mechanics' Institute of the City of San Francisco :

Reports,—a variable number of pages pub. annually in San Fran-
cisco. 8vo.

1st Report, 1857, to 10th, 1875, ed. W. G. Morris & H. C. Ben-
nett. Price \$2.12 per annum.

Mechanics' Magazine. See "American Railroad Journal and
Advocate," &c.

**American Railroad Journal and Iron Manufacturer and Mining
Gazette.** See "American Railroad Journal and Advocate," &c.

Mechanics' Magazine, Museum, Register, Journal and Gazette :
a weekly, devoted to the accumulation of useful knowledge,
pertaining to Mechanics ; contains 15 pages of letter-press and
cuts, issued in two vols. a year, commencing March and October.
London. 8vo. R. E. L. F. I. L. C. U of P.

Vol. I., 1823, to XI., 1829, pub. by Knight & Lacy ; Vol. XII.,
1830, to XXI., 1834, pub. by M. Salmon ; Vol. XXII., 1835, to XXV.,
1836, pub. by J. Cunningham ; Vol. XXVI., 1837, to XXXVII.,
1842, pub. by W. A. Robertson ; Vol. XXXVIII., 1843, to XLVI.,
1847, ed. by R. A. Brooman ; Vol. XLVII., 1847, to LXIX., 1858,
ed. by R. A. Brooman and E. J. Reed.

In 1859 the size and title changed to—

"The Mechanics' Magazine and Journal of Engineering, Agriculture, Machinery, Manufactures and Ship Building" : weekly, containing 16 pages of letter-press, pub. in London, in two vols. a year, commencing Jan. and July. 4to.

New Series, Quarto, Vol. I., 1859, to XII., 1864, conducted by R. A. Brooman & E. J. Reed; at Vol. XIII., 1865, size was increased to small folio; Vol. XIII., 1865, to XXVII., 1872, conducted by R. A. Brooman & E. J. Reed.

In 1873, the title changed to—

"Iron," "The Journal of Science, Metals and Manufactures, with which was incorporated the 'Mechanics' Magazine, (established in 1828)'": weekly, of 32 pages, pub. in London, in two vols. a year, commencing Jan. and July. Folio.

Vol. I., 1873, to IX., 1877, ed. not given.

Price \$8.66, 34s. 8d. Thin paper edition, \$7.58, 30s. 4d.

Mechanics' Magazine and Register of Inventions and Improvements: an illustrated monthly of 48 pages letter-press, pub. in New York, in two vols. a year. 4to.

Vol. I., Jan. to June, 1833, D. K. Minor, proprietor; Vol. II., 1833, to VII., 1836, ed. by John Knight.

In 1836, Vol. VIII., the title was changed to "Mechanics' Magazine and Journal of the Mechanics' Institute."

Vol. VIII., 1836; Vol. IX., 1837, ed. by John Knight.

Mexican Society of Civil Engineers and Architects.

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Midland and Northern Coal and Iron Trades Gazette. London.

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Military and Naval Magazine of the United States : monthly, of 64 pages of letter-press, devoted to Military, Naval and General Matters, pub. in Washington, in one and two vols. a year. 8vo.

Vol. I., 1833; Vol. II., 1833-34; Vol. III., 1834; Vol. IV., 1834-35; Vol. V., 1835; ed. not given.

Miners' Association of Cornwall and Devon* :

Annual Reports,—pub. of from 30 to 100 pages letter-press and illustrations, devoted to subjects relating to Mining; pub. in Truro or Falmouth, England, commencing in 1859. 8vo.

Vol. I., 1859, to Vol. —? 1864, ed. by J. H. Collins.

* Information received direct : more desired.

Note.—This publication was first pub. at irregular periods, latterly annually.

Miner, Metals and Arts. Price \$2.00.

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Mineral Resources of the States and Territories. See "The Mineral Resources of the United States."

Mining Magazine : monthly, of a variable number of pages letter-press, devoted to Mines, Mining Operations, Metallurgy, &c.; pub. in New York, in two vols. a year. 8vo.

Vol. I., 1853, to Vol. VIII., 1857, ed. by Wm. J. Tenny ; Vol. IX., 1858, ed by Thos. McElrath.

In 1858 publication discontinued.

Mining and Petroleum Standard, and American Gas Light

Journal : an illustrated semi-monthly of 8 pages, devoted to Mining, Petroleum, Gas, Water, and Scientific subjects generally ; pub. in New York, in one vol. a year, after Vol. VI.

Vol. I., 1838, to X., 1868, ed. by M. L. Callender & Co.

In 1868, vol. X, the words "Mining and Petroleum Standard," were dropped from the title.

In 1869, Vol. XI., the title changed to "The American Gas Light Journal and Chemical Repertory, devoted to the Interests of Illuminating, Heating, Ventilation, and Sanitary Improvements, Domestic Economy and General Science." In two vols. a year, January and July ; size remained the same.

Vol. XII., 1870 to XXVI., 1877, ed. not given.

Price \$3.00 per annum. L. C. P. I. F. I. L. C.

Mining and Scientific Press, a Journal of Science, Art, Mining, Agriculture, Manufactures, Chemistry, Inventions, &c.: a weekly, of 8 pages, issued in one vol. a year, at San Francisco; commenced in March. Folio.

Vol. I., 1859, to Vol. III., 1861, J. Silversmith ed. and proprietor.

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Between 1861 and 1866, the title was changed to "Mining and Scientific Press," a Journal of Useful Arts and Mining and Mechanical Progress," pub. in two vols. a year.

Vol. XIII., 1866, to Vol. XX., 1870, of old Series, ed. by Dewey & Co.,

In 1870, Vol. XXI., the title changed to "Scientific Press and Illustrated Journal of Science and Industrial Progress, Mining, Farming, and Mechanic Arts"

Vol. XXI., 1870; Vol. XXII., 1871, ed. by Dewey & Co.

In 1871, Vol. XXIII., the sub-title changed by inserting "Mechanical Arts and Inventions," after Mining.

Vol. XXIII., 1871; Vol. XXIV., 1872, ed. by Dewey & Co.

In 1872, Vol. XXV, the title changed to "Mining and Scientific Press and Illustrated Journal of Mining."

Price \$4.00 per annum. L. C. P. I.

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National Association of the Miners of Great Britain:

Transactions and Results. London and Leeds, 1863-64. L. C. P. I.

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Newton's London Journal of Arts and Sciences. London, 1820-66. See "The London Journal of Arts and Science."

L. C. P. I.

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Nature : a weekly Illustrated Journal of Science, of 8 to 14 pages letter-press and cuts, devoted to General Science in all departments; pub. in London and New York, in two vols. a year commencing May and November. 8vo.

Vol. I., 1869, to Vol. XVIII., 1878, pub. by Macmillan & Co.

In May, 1878, the number of pages was doubled.

Price \$5.00, 28s. per annum. U. of P. F. I. A. P. S.

Nicholson's Journal of Natural Philosophy. See "Journal of Natural Philosophy, Chemistry and the Arts."

North Western Miller. (Weekly.)

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Ocean Highways. The Geographical Review : monthly of 44 pages and maps, pub. in London, in one vol. a year, commencing April, 1873. 4to.

(Early history missing).

New Series. Vol. I., 1873-74, ed. by Clements R. Markham.

In 1874, "The Geographical Magazine" was issued, which was, apparently, a continuation of the above, and pub. monthly in London, contains 44 pages and maps.

Vol. I., 1874-75; Vol. II., 1875-76. L. C. L. C. P. I.

Price \$5.25, 21s.

Parliamentary Papers. \$63 or £12 12s. per annum.

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Patent Right Gazette. New York, 1871——— L. C. P. I.

Price \$1.50 per annum.

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Patent Star. Boston, 1871-73. L. C. P. I.

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Penny Mechanic and Chemist. London, 1836-42. L. C. P. I.

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Philadelphia Journal of Industry. Philadelphia, 1870.

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Philosophical Institute of Victoria. See "Philosophical Society of Victoria."

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Philosophical Magazine, or Annals of Chemistry, &c. See "Annals of Philosophy or Magazine of Chemistry."

Philosophical Magazine, "Comprehending the various branches of Science, the Liberal and Fine Arts, Agriculture, Manufactures, and Commerce": a variable number of pages, pub. in one and two vols. a year, London. 8vo.

Vol. I., 1798; Vol. II., to XIX., N. D.; Vol. XX., to 1805; Vol. XXI., XXII., to 1805; Vol. XXIII. to XXV., to 1806; Vol. XXIV., XXVIII., to 1807; Vol. XXIX., to XXXI., to 1808; Vol. XXXII., to XXXIV., to 1809; Vol. XXXV., 1810, to Vol. LXVIII., 1826, two vols. a year, regularly.

Vol. I., to LX., ed. Alex. Tilloch; Vol. LXI., to LXVIII., ed. Alex. Tilloch and Richard Taylor.

In Vol. LXVIII., 1826, the ed. announced that the New Series would be entitled, "Philosophical Magazine and Annals of Philosophy," and Mr. Richard Phillips was added to the staff. See "Chronological Table."

Philosophical Society of Glasgow:

Proceedings,—a variable number of pages, pub. in London and Glasgow, in one vol. a year. 8vo.

Vols. I., 1846-47; II.—III., 1848-49; IV., 1855-59; London and Glasgow; Vol. V., 1860-61; Vol. VI., 1865-68; Vol. VII., 1870-71; Vol. VIII., 1871-73; Vol. IX., 1873-74; Vol. X., 1875-76, Glasgow; ed. not given.

Price 2s. 6d. to 4s. per num.

Philosophical Society of Victoria. See "Royal Society of Victoria." L. C. P. I.

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Plumber and Sanitary Engineer, American. New York. \$1.50.
L. C. P. I.

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Polytechnic Review.

1844, New Series was started with the title, "Polytechnic Review and Magazine of Science, Literature and the Fine Arts: a monthly of 80 pages, pub. in two vols. a year, commencing January and July. London. 8vo.

Vol. I., July, 1844; Vol. II., Jan., 1845, ed. by Geo. G. Sigmond and Thomas Stone.

Note.—This New Series is the result of a consolidation of "The Polytechnic Review" and "The London Polytechnic Magazine" with the above title.

Popular Science Monthly: of 227 pages letter-press and cuts, devoted to general Science; conducted by E. L. Yomans, issued in two vols. a year, commencing May and October. New York. 8vo. A. N. S.

Vol. I., 1872, to Vol. Vol. XI., 1877.

Popular Science Review: a Quarterly Miscellany of Entertaining and Instructive Articles on Scientific Subjects: a variable number of pages, pub. in London, in one vol. a year, regularly. 8vo.

Vol. I., to 1862; Vol. II., to 1863, ed. by James Samuelson.

Vol. III., 1864 to Vol. XV., 1876, ed. by Henry Lawson.

Note.—It appears that in 1864, James Samuelson left the Review and united with Wm. Crookes in the "Quarterly Journal of Science."

Practical Magazine. London, 1873-76. L. C. P. I.

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Quarterly Journal of Science: a Review of Science in all parts of the world: a variable number of pages, issued annually in London. 8vo.

Vol. I., 1864, to Vol. V., 1868, ed. by James Samuelson and Wm. Crookes; Vol. VI., 1869, to Vol. VII., 1870, ed. by James Samuelson.

1871, a sub-title was added, and the whole read "The Quarterly Journal of Science and Annals of Mining, Metallurgy, Engineering, Industrial Art, Manufactures and Technology," and continued as a New Series.

Vol. I., 1871, to Vol. VI., 1876, ed. by Wm. Crookes.

L. C. P. I. C. S. M.

Quarterly Papers on Architecture. (Weale.) London, 1844-45.

L. C. P. I.

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Quarterly Papers on Engineering: Being a collection of papers on Engineering Subjects, (each paper paged separately). Pub. and ed. by John Weale, London. 4to.

Vol. I., 1843-44, to Vol. VI., 1847.

Quarterly Journal of Science, Literature and the Arts. See "Royal Institution of Great Britain."

Railroad Gazette. See "Western Railroad Gazette."

Railroad Gazette: a Journal of Transportation; weekly, of 14 pages, devoted to Railroad News, pub. in one and two vols. a year, in New York, commencing January, 1856. 8vo.

Vol. I., 1856 to Vol. XV., 1870, ed. not given.

In 1870, the size was increased to quarto.

Vol. I., 1870, ed. not given; Vol. II., 1870; Vol. III., 1871; Vol. IV., 1872; Vol. V., 1873, conducted by S. W. Dunning and M. N. Forney.

Vol. V., 1873, the words "Engineering and Railroad News" were added to the sub-title, and pub. in Chicago and New York.

Vol. VI., 1874; Vol. VII., 1875; Vol. VIII., 1876, conducted by S. W. Dunning and M. N. Forney. F. I.

Railroad Record; or, Journal of Commerce, Banking, Manufactures and Statistics: a weekly of 16 pages letter-press, pub. in Cincinnati, in one vol. a year. 4to.

Vol. I., 1853, ed. by E. D. Mansfield; Vol. II., 1854, ed. by E. D. Mansfield, W. Wrightson and J. A. James; Vol. III., 1855-56, ed. by E. D. Mansfield, W. Wrightson and T. Wrightson.

Railway Herald. (Hyde Clarke.) London, 1844-45. L. C. P. I.

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Railway Register. (Hyde Clarke.) London, 1845-47. L. C. P. I.

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Railway World. In which is incorporated "The United States Railroad and Mining Register," established in 1856: monthly, 14 pages letter-press, pub. in Philadelphia, in one vol. a year,

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Quarto Series to Vol. I., 1875. Vol. IV., 1878, ed. not given.
C. S. M. Price \$4.00 per annum.

Record of the Progress of Modern Engineering. London 1864—

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Railroad and Warehouse Commission, State of Illinois:

"Reports,—an annual pub. by the State; a vol. of 119 pages letter-"
"press with maps, devoted to Returns of Railroads operated in"
"Illinois, and Report of Commissions with deductions thereon,"
"pub. in Springfield, in one vol. a year, commencing 1871. 8vo."
"Pub. by the State."

Vol. I, 1871, to Vol. VII., 1877, ed. by M. H. Chamberlain.

Record of Patent Inventions. London, 1842-43. L. C. P. I.

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Register of the Arts and Sciences, Improvements and Discoveries: an illustrated weekly of 16 pages, letter-press and cuts, issued in one vol. a year, commencing October 18th, 1823. London. 8vo.

Vol. I., 1823. 24, to Vol. III., 1826, ed. not given.

New Series, Vol. I., 1828; Vol. II., 1828; Vol. III., 1829; Vol. IV., 1830; Vol. V., 1831; Vol. VII., 1832, ed. by L. Herbert.

Repertory of Patent Inventions. London, 1894-1862. L. C. P. I.

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Repository of Arts, &c. London, 1809-28. L. C. P. I.

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Retrospect of Philosophical, Mechanical, Chemical and Agricultural Discoveries, being an abridgement of the periodical and other publications, English and Foreign, relating to Arts, Manufactures, &c., with remarks on the merits and defects on the respective papers: 128 pages letter-press, issued in three parts a year, commencing Jan., May, and Sept. London 8vo.

Vol. I., 1805, to Vol. VII., 1812, regular; Vol. VIII., 1815, ed. not given.

Reports, Annual of the Auditor General of the State of Pennsylvania, and of the Tabulation and Deductions from the Reports of the Railroad, Canal and Telegraph Companies, for the year —: a variable number of pages, pub. in Harrisburg.

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Reports for 1868, 1869, 1870, 1871, 1872, 1873, 1874.

Report, Annual of the Board of Railroad Commissioners of Massachusetts: 375 pages, pub. in Boston by order of the State, in one vol. a year, commencing in 1869. 8vo.

Vol. for 1869, to 1878, ed. not given.

Report of the Chief of Ordnance to the Secretary of War: variable number of pages, pub. annually in Washington. 8vo

Vol. for 1872, to 1877.

Report of the Commissioners appointed to inquire into the condition of the Exchequer (now Board of Trade) Standards, and the condition of the official Standard apparatus: 265 pages, pub. annually in London. 4to.

Vol. I., 1868, to V., 1871. U. S. C. S.

Report of the Observation at Washington Observatory: an irregular number of pages, pub. in Washington annually. 4to.

Vol. VIII., for 1868, to 1874. B. F. Sands in charge.

Report of the Second Geological Survey of Pennsylvania: an irregular number of pages, pub. in Harrisburg at occasional periods. Issued for the State by the Board of Commissioners.

Report A., 1874-75-76; B., 1874, (Mineral Spring Water,) 1875; C, 1874; C. C, 1875; D, 1874; D. D, 1875-76; E, 1875; F, 1874-5, G, 1874-78; H, 1874; H, H, 1875; H, H, H, 1876; H, H, H, H, 1877; I, 1874; I, I, 1876-77; J, 1874; K, 1875; K, K, 1876; K, K, K, 1877; L, 1875; M, 1874-75; N, 1875-76-77; O, 1874-75-76-77; P, Q, 1875. Still in progress. U. of P. F. I.

Retrospect of Philosophical, Mechanical, Chemical, and Agricultural Discoveries. London, 1805-12.

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Reynolds' Builder Trade Circular. London. Monthly.

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Report of Surveyor General of Dominion Lands.

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Royal Artillery Institution:

Proceedings. Woolwich, 1858——

L. C. P. I.

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Royal Cornwall Polytechnic Society. See "The Cornwall Polytechnic Society."

Royal Dublin Society:

Proceedings.

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Journal,—a variable number of pages, issued at irregular periods. Dublin. 8vo.

Vols. I., 1856-57; Vol. II., 1858-59; Vol. III., 1860-61; Vol. IV., 1863-65; Vol. V., 1870; Vol. VI., 1872-74; Vol. VII., 1875, ed. not given.

Royal Engineers :

Papers. London, 1837—

L. C. P. I.

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Royal Engineers' Institution : "Professional Papers of the Corps of Royal Engineers, containing papers on subjects connected with the duties of the Corps of Royal Engineers: 150 to 200 pages letter press and plates, pub. annually. London. 4to.

Vol. I., 1837, to VIII, 1847, ed by Sir W. Denison, R. E. ; Vol. IX., — ed. by Sir Henry James, R. E.; Vol. X., — ed. by Col. Lewis and Capt. J. Williams.

At the same time as Vol. X., a series entitled :

"Corps Papers and Memoirs on Military Subjects," a large octavo was commenced, and three parts forming Vol. I., pub. by Weale, in 1849-50 : (This Vol. contained some 460 pages letter-press and plates, ed. by Col. Lewis and Capt. J. Williams ; this was the only vol. that appeared of this series.)

In 1851, the original series, quarto was changed to octavo, and continued with the same title as Vol. I.

New Series, Vol. I., 1851, to Vol. III., 1853, ed. by Col. Lewis and Capt. J. Williams; Vol. IV., 1854, to Vol. X., 1864, ed. by Gen. P. J. Bainbrige; Vol. XI., 1865, to Vol. XXIII., 1876, ed. by Gen. Hutchinson.

Royal Engineers' Institute. "**Occasional Papers**": an octavo publication, ed. by Major R. H. Vetch, issued in quarterly parts, was started in 1877.

Vol. I., 1877.

"The Royal Engineer Prize Essays": commenced in 1875, contains a variable number of pages. 8vo. N. P.

Vol. I., 1875, to Vol. II., 1876, ed. not given.

Subsequently this was merged into the "Occasional Papers Series."

"Royal Engineer Establishment Papers," on professional subjects, by officers of the Corps of Royal Engineers: an annual publication of from 150 to 200 pages letter-press and plates. 8vo. Printed at the Royal Engineers' Establishment for private circulation amongst the officers of the Royal Engineers at Chatham.

Vol. I., 1861-62, to Vol. IV., 1864-65, ed. not given."

Royal Geographical Society of Cornwall, (Instituted Feb. 11th, 1814):

Transactions,—a variable number of pages, pub. at irregular periods, in London and Penzance. 8vo.

Vol. I., 1818, London, ed. not given; Vol. II., 1822, III., 1828, Penzance, ed. not given; Vol. IV., 1832; Vol. V., 1843, Penzance and London, ed. not given. A. N. S.

Annual Reports,—an octavo publication of a variable number of pages. 8vo.

Report 1st, for 1813, to Report 38, 1851.

Royal Geological Society of Cornwall:

Transactions. London and Penzance, 1818—— L. C. P. I.

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Royal Geographical Society of Ireland:

Journal,—pub. at irregular periods, in London, Dublin and Edinburgh. 8vo.

Vol. I., 1864-67, ed. not given. A. N. S.

Royal Geological Society of Ireland:

Journal,—a variable number of pages, pub. at irregular periods; ed. not given, issued in Dublin, London and Edinburgh. 8vo.

Vol. I., 1838; Vol. II., 1839; Vol. III., 1849; Vol. IV., 1848-50; Vol. V., 1850-51; Vol. VI., 1853-55; Vol. VIII., 1857-60; Vol. IX, 1860-62, pub. in Dublin; X., 1862-64, pub in London, Dublin, and Edinburgh. A. N. S. A. P. S.

Royal Geographical Society of London:

Journal,—a variable number of pages, issued in London, in one vol. a year. 8vo. A. N. S. A. P. S.

Vol. I., for 1830-31, to XXII., 1852, ed. not given; Vol. XXIII., 1853, to XXIV., 1854, ed by D. Norton Shaw; Vol. XXV., 1855, to Vol. XXXII., 1862, ed. by the Secretary; XXXIII., 1863, to Vol. XLVI., 1876, ed. by the Assistant Secretary.

Proceedings,—a variable number of pages, pub. annually in London. 8vo.

Vol. I., for 1855-57, ed. by the Secretary; Vol. II., for 1857-78, to Vol. IV., 1859-60, ed. by D. Norton Shaw; Vol. V., for 1860-61, ed. by Francis Galton; Vol. VI., for 1861-62, ed by Francis Galton and W. Spottiswoode; Vol. VII., for 1862-63, ed. by Francis Galton, W. Spottiswoode and C. R. Markham; Vol. VIII., for 1863-64, to Vol. XXI., 1877, ed. by Assistant Secretary. A. N. S. A. P. S.

Price 1s. 6d. per number to nonfellows.

Royal Geological Society of Cornwall :

Reports and Transactions,—variable number of pages letter-press, devoted to matters of Geological Interest, pub. in Penzance, at irregular periods, 8vo. Commenced in 1831.

Vol. I., 1831 to VIII., 1839., ed. by Secretary.

Royal Institute of British Architects :

Transactions. London, 1835-41.

Papers read. London, 1853-60. L. C. P. I.

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Royal Institution of Cornwall :

Journal,—about 100 pages letter-press and plates, devoted to Archaeology, Science, &c.; pub. in Truro, in one or two parts a year, commencing 1862. 8vo.

Vol. I., 1862, to V., 1878; Vol. VI., commenced Nov., 1878, ed. by J. H. Collins.

Reports. Truro, 1829-63. L. C. P. I.

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Royal Institution of Great Britain :

The Journal of Science and the Arts, Ed. at the,—a Quarterly publication, issued in two vols. a year, New York and London. (For the first five vols. an American edition was issued, after that date it stopped.)

Vol. I., 1817, to V., Vol. VI., 1819, London and New York, ed. not given.

In 1820, Vol. VII., title changed to "Quarterly Journal of Science, Literature and the Arts."

Vol. VIII., for 1820, to Vol. XXII., 1827, ed. not given.

The word "Literary" was, in a few instances, omitted from some of the vols.

Vol. XX., 1826, contains an Index to the first twenty vols.

Proceedings,—pub. at irregular intervals in London. 8vo.

Vol. I., 1., 1854; Vol. II., 1858; Vol. III., 1862; Vol. IV., 1862-66, with an Index for Vol. I. to V., ed. not given; Vol. V., 1866-69; Vol. VI., 1870-72; Vol. VII. 1873-75; Vol. VIII., 18—, ed. not given. L. A. P. S. A. N. S.

Royal Irish Academy :

Proceedings,—issued at irregular periods, pub. in Dublin. 8vo.

A. N. S. A. P. S. C. S. M.

Vols. I., 1836-40; II., 1840-44; III., 1845-47; IV., 1847-50;
V.; VI.; VII., 1857-61; VIII., 1861-64; XI., ed. not given.

Second Series: Vol. I., for 1869-70.

Price 3s. 6d. per copy.

Transactions. Dublin, 1787-1859. A. P. S. L. C. P. I.

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Royal Physical Society of Edinburgh:

Proceedings. Edinburgh 1854——— L. C. P. I.

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Royal School of Naval Architecture, &c. :

Annual. London, 1871——— L. C. P. I.

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Royal United Service Institute :

Journal,—a monthly, containing 120 pages of letter-press and plates, two vols. a year, commencing Jan. and July, ed. by the Council of the Institute. 8vo.

Vol. I., II., III., IV., 1860, 1861; Vol. V., number XX, Feb. and Supplement for March, 1862; Vol. VI., number XXI, XXII, XXXIII, XXIV., XXV., and appendix, 1863; Vol. VII., number XXVI., 1863; Vol. VIII., number XXX., XXXI., XXXI., XXXIII., May, 1864; Vol. IX., number XXXI., XXXIII., July, Dec., 1864; Vol. X., number XXXIX., Aug. 1866, XLII., and appendix, April, 1867; Vol. XI., number XLIV., Aug., 1867, XLV., Sept., 1867; Vol. XII., number XLVIII., May, 1868; Vol. XIV., number LIX., 1870; Vol. XX., number LXXXVIII., 1876.

Royal Scottish Society of Arts :

Transactions. Edinburgh, 1841——— L. P. C. I.

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Royal Society of Edinburgh:

Proceedings,—a variable number of pages, pub. in Edinburgh, at irregular periods. 8vo.

Vol. I., 1832, to 44; Vol. II., 1844, to 50; Vol. III., 1850, to 57; Vol. IV., 1857, to 62; Vol. V., 1862, to 66; Vol. VI., 1866, to 69; Vol. VII., 1869, to 72; Vol. VIII., 1874, to 75, ed. not given.
A. N. S. A. P. S.

Transactions,—an annual of 645 pages letter-press, issued in Edinburgh and London. 4to. Pub. successively by J. Dickson, T. Codell, T. Codell, Jr. & W. Davies, J. Dickson & E. Balfour, and Bell & Bradfute, and E. Balfour.

Each Vol. divided into Parts: Part I., Business of the Society; Part II., Papers of the Physical Class; Part III., Papers of the Literary Class.

Vol. I., 1788, to XXVI., 1872. T. R. E. L. A. P. S.

Royal Society of London:

Abstracts of the Papers printed in the Philosophical Transactions,—from 1800 to 1830, and forward: a variable number of pages, issued at irregular periods in London. 8vo.

Vol. I., from 1800, to 1814; Vol. II., from 1815, to 1830; Vol. III., from 1830, to 1837; Vol. IV., from 1837, to 1843; Vol. V., from 1843, to 1850; Vol. VI., from 1850, to 1854, printed by order of the President and Council.

Vol. VII., from 1854, to 1855, printed by order of the President and Council.

The Abstracts now continued under the title of "Proceedings of the Royal Society," otherwise no change.

Proceedings,—a continuation of Abstracts of the Royal Society of London. 8vo.

Vol. VII., 1854-55; Vol. VIII., 1856-57; Vol. IX., 1857-59; Vol. X., 1859-60; Vol. XI., 1860-62; Vol. XII., 1862-63; Vol. XIII., 1863-64; Vol. XIV., 1865; Vol. XV., 1866-67; Vol. XVI., 1867-68; Vol. XVII., 1868-69; Vol. XVIII., 1869-70; Vol. XIX., 1870-71; Vol. XX., 1871-72; Vol. XXI., 1872-73; Vol. XXII., 1874; Vol. XXIII., ———; Vol. XXIV., ———; Vol. XXV., ———; ed. not given.

Price irregular.

A. N. S.

Royal Society of London :

Lowthrop's Abridgement of the Philosophical Transactions and Collections to the end of the year 1720: pub. in London, at irregular periods, containing matter collected from the proceedings of the Royal Society. 8vo. A. N. S.

Vol. I., Part 1., Mathematics, ed. by John Lowthrop, 1731; Vol. II., Physiological Papers, ed. by John Lowthrop, 1731; Vol. III., Anatomical, Medical and Chemical Papers, ed. by John Lowthrop, 1731.

Royal Society of London :

Philosophical Transactions,—from their commencement in 1665 to the year 1800. Abridged with Notes and Biographical illustrations: issued in London, in 18 vols.; the whole Series was compiled and ed. in the year 1809, by Chas. Hutton, Geo. Shaw, Rich. Pearson. 4to. London. A. N. S.

Vol. I., from 1665, to 1672; Vol. II., from 1672, to 1683; Vol. III., from 1683, to 1694; Vol. IV., from 1694, to 1702; Vol. V., from 1703, to 1712; Vol. VI., from 1713, to 1723; Vol. VII., from 1724, to 1734; Vol. VIII., from 1735, to 1743; Vol. IX., from 1744, to 1749; Vol. X., from 1750, to 1755; Vol. XI., from 1755, to 1763; Vol. XII., from 1763, to 1769; Vol. XIII., from 1770, to 1776; Vol. XIV., from 1776, to 1780; Vol. XV., 1781, to 1785; Vol. XVI., from 1785, to 1790; Vol. XVII., from 1791, to 1796; Vol. XVIII., 1796, to 1800; discontinued.

Royal Society of London :

"Philosophical Transactions,—giving some account of the present Undertakings, Studies and Labors of the ingenious in many considerable parts of the world: " issued at irregular periods, by the Royal Society, London. 4to. A. N. S.

Vol. I., II., III., 1665, 1666, Vol. IV., 1669, ed. not given; Vol. V. and VI., N. D., ed. by Henry Oldenburg; Vol. VII., VIII., IX., 1672-74, ed. not given; Vol. X., XI., XII., 1675-78, ed. by Henry Oldenburg.

The title of " Transactions " was changed to " Collections," and pub. as such for one Vol., XIII., 1678, (ed. not given,) and then relapsed to the old title of " Transactions," in January, 1682.

Vol. XIII. and XIV., in one, 1682-84, ed. not given.

Vol. XV., XVI., 1685-87, ed. by Wm. Musgrave; Vol. XVII., XVIII., 1691-94, ed. by Rich. Walter; Vol. XIX., 1695-97; Vol.

XX., XXI., 1698-99; Vol. XX., XXII., 1700-1; Vol. XXIII., 1702-3; Vol. XXIV., 1704-5; Vol. XXV., XXVI., 1706-9; Vol. XXVII., XXVIII., 1710-13, ed. by Hans Sloane; Vol. XXIX., 1714-16; Vol. XXX., 1717-19, ed. by Edmond Halley; Vol. XXXI., XXXII., 1720-23; Vol. XXXIII., XXXIV., 1724-27, ed. by James Jurin; Vol. XXXV., XXXVI., 1727-30, ed. by Wm. Rutt; XXXVII., XXXVIII., 1731-34; Vol. XXXIX., 1735-36; Vol. XL., with Supplement, 1737-38; Vol. XLI., Part I., 1739-40; Part II., 1740-41; Vol. XLII., 1742-43; Vol. XLIII., 1744-45; Vol. XLIV., Part I., 1746; Part II., 1747; Vol. XLV., 1748; Vol. XLVI., 1749-50, ed. by Cromwell Mortimer; Vol. XLVII., 1751-52, ed. by a Committee.

Up to this date, 1752, the "Transactions" had not received the authority or sanction of the Royal Society, but was a private publication of the respective Secretaries. (See advertisement to Vol. XLVII), then it was pub. by the Council.

Vol. XLVIII., Part I., 1753; Part II., 1754; Vol. XLIX., Part I., 1755; Part II., 1756; Vol. L., Part I., 1757; Part II., 1758; Vol. LI., Part I., 1759; Part II., 1760; Vol. LII., Part I., 1761; Part II., 1762; Vol. LIII., 1763; Vol. LIV., 1764; Vol. LV., 1765; Vol. LVI., 1766, ed. by a Committee; Vol. LVII., Part I., 1767, Part II., not pub.; Vol. LVIII., for 1768; Vol. LIX., for 1769; Vol. LX., for 1770; Vol. LXI., for 1771; Vol. LXII., for 1772, ed. by a Committee.

At this date the Council resolved to pub. the Transactions in two Vols. a year: the first part to appear as soon as possible after Feb., the second after the recess of the Society.

Vol. LXIII., for 1773; Vol. LXIV., for 1774; Vol. LXV., for 1775; Vol. LXVI., for 1776; Vol. LXVII., for 1777; Vol. LXVIII., for 1778; Vol. LXIX., for 1779; Vol. LXX., for 1780; Vol. LXXI., for 1781; Vol. LXXII., for 1782; Vol. LXXIII., for 1783; Vol. LXXIV., for 1784; Vol. LXXV., for 1785; Vol. LXXVI., for 1786; Vol. LXXVII., for 1787; Vol. LXXVIII., for 1788; Vol. LXXIX., for 1789; Vol. LXXX., for 1790; Vol. LXXXI., for 1791, ed. by a Committee.

In 1791, the word "Volume" and the number in roman numerals was dropped; the Vols. numbered by the year.

Vol. for 1792, to 1835, ed. by a Committee.

In 1808 size enlarged to large Quarto.

In 1835, the Meteorological Journal, kept by the Assistant Secretary, was discontinued.

In 1854 the number of the Vols. not again pub.

Vol. CXLIV., for 1854; Vol. CLXV., for 1855; Vol. CLXVI., for 1856, ed. by a Committee; Vol. CXLVII., for 1857, to Vol. CLXIII., for 1873, ed. not given.

In 1874 the number of the Vol. was again dropped.

1874, Parts I. and II.; 1875, Parts I. and II.; 1876, Part I.

Price 5s. per number.

Royal Society of London :

"Philosophical Transactions and Collections, Abridged and Disposed under General Heads": pub. in London at irregular periods, and compiled from the papers and proceedings of the Royal Society. Arranged under three heads: Mathematics, Astronomy, and Mechanics. (A private publication.) 4to.

A. N. S. A. P. S.

"Vol. I., to the end of 1700, ed. by John Lowthrop and Henry" "Jones; Vol. II., to the end of 1700, ed. by John Lowthrop and" "Henry Jones; Vol. III., to the end of 1700, ed. by John Low" "thorp; Vol. IV., to the end of 1720, ed. by Henry Jones; Vol. " "V., from 1700, to 1720, ed. by Henry Jones; Vol. VI. and VII., " "from 1719, to 1733, ed. by John Eames and John Martyn; Vol. " "VII., Part I. missing; Part II. 1719, to 1733, (Philosophical " "Papers,) ed. by John Eames and John Martyn; Vol. VIII., contain-" "ing Anatomical and Physiological Papers, 1719, to 1733, ed. by " "John Eames and John Martyn."

Royal Society of London :

Reid & Gray's Abridgement of the Philosophical Transactions of the Royal Society, from the year 1720 to 1732,—a private publication, issued in London, at irregular periods, and composed of extracts from papers read at the Royal Society. 4to.

Vol. I., ———.

Vol., VI., ed. by Mr. Reid & John Gray, 1733; Vol. VI., Part II., III., IV., ed. by Mr. Reid & John Gray.

Royal Society of Victoria :

Transactions. Melbourne, 1854——— L. P. C. I.

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Royal United Service Institution :**Journal.** London, 1837——— L. C. P. I.

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Scientific American : an illustrated weekly Journal of Art, Science, and Mechanics, issued in New York by Munn & Co., and contains 8 pages of letter-press, in two Vols. for each year, commencing Jan. and July. First Series appeared in 1845.

First Series, Vol. I., 1845, to Vol. ——— 1858.

New Series Vol. I., to Vol. XV., 1859 to 1866, Quarto.

Vol. XVI., 1867, to Vol. XL., 1879. Folio.

Price \$3.20 per annum.

Scientific American Supplement : weekly, of 16 pages letter-press and cuts, devoted to General and Applied Science, pub. in New York, in two Vols. a year, commencing Jan. and July. Folio.

Vol. I., 1876, to Vol. VII., 1879, ed. and pub. by Munn & Co.

R. E. L. F. I. A. P. S. C. S. M.

Price \$5.00 per annum.

Scientific and Mechanical Society :**Proceedings.** Manchester, 1872-73———**Annual Reports.** Manchester, 1874———

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Scientific Memoirs, selected from the Transactions of Foreign Academies of Science and Learned Societies, and from Foreign Journals: a variable number of pages, pub. in London, at irregular periods. 8vo. A. N. S

Vol. I., 1837; Vol. II., 1841; Vol. III., 1843; Vol. IV., 1846;

Vol. V., 1852, ed. not given.

Scientific News. New York. L. C. P. I.

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Scientific Opinion: a weekly record of Scientific Progress at home and abroad, contains eight pages of letter-press, issued in London, ed. not given. Two Vols a year. 4to.

Vol. I., 1869; Vol. II., ———; Vol. III., Jan. to June, 1870.

This Journal was subsequently incorporated with "The English Mechanic and Mirror of Science," which see—

Scientific Press: an Illustrated Journal of Science, &c. See "Mining and Scientific Press."

Sewing Machine. London, 1863-64.

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Sewing Machine Gazette. London, 1875——

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Smithsonian Institution, Washington, D. C.

Smithsonian Contribution to Knowledge: about 306 pages of letter-press and plates, issued by the Institute at irregular periods, consisting of original papers by various authors. 4to.

"Vol. I., 1849; Vol. II., 1851; Vol. III., 1852; Vol. IV., 1852;"
 "Vol. V., 1853; Vol. VI., 1854; Vol. VII., 1855; Vol. VIII., 1856;"
 "Vol. IX., 1857; Vol. X., 1858; Vol. XI., 1859; Vol. XII.,"
 "1860; Vol. XIII., 1863; Vol. XIV., 1865; Vol. XV., 1867; Vol."
 "XVI., 1876; Vol. XVII., 1871; Vol. XVIII., 1873; Vol. XIX.,"
 "1874; Vol. XX., 1876; Vol. XXI., 1876."

Smithsonian Miscellaneous Collections: 500 pages letter-press with plates, pub. by the Smithsonian Institute, annually. 8vo.

Vol. I., 1862, to XII., 1874.

Reports,—269 pages of letter-press, issued annually by the Board of Regents, showing the Operation, Expenditure and Condition of the Institute. Pub. Washington, D. C. 8vo.

A. P. S. F. I. R. E. L. C. S. M.

Vols. 1853, to 1875.

Society of Arts : Instituted at London for the encouragement of Arts, Manufactures and Commerce.

Transactions,—about 400 pages letter-press, pub. in London. 8vo.

Vol. I., for 1783, ed. by Samuel More, Secretary; Vol. II., for 1784, ed. not given; Vol. III., for 1785, to Vol. XLI., 1822, ed. not given; Vol. XLII., for 1823, to Vol. LV., 1843. A. N. S. F. I.

In 1846-7 the "Transactions" was pub. in a quarto form, and contained 144 pages letter-press with plates.

Vol. I., 1846-7.

The Yearly Transactions were discontinued, and after a lapse of time, the Journal was issued under title

Society of Arts, and of the Institutions in Union :

Journal,—weekly, of twelve pages letter-press, devoted to the Arts, pub. in one vol. a year, commencing November, 1852, London. 8vo. A. P. S.

Vol. I., 1852-53, to Vol. XXIII., 1874-75, pub. annually, ed. not given; Vol. XXIV., 1875-76, ed. by H. T. Wood.

Price \$6.00 per annum to non members.

Society of Arts of Scotland. See "Royal Scottish Society of Arts." L. C. P. I.

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Society of Engineers of London :

Transactions,—containing the papers read, and discussions thereon: a variable number of pages letter-press and lithographic plates, devoted to reports of the Society's Proceedings, pub. in London annually, commencing 1861. 8vo.

Vol. for 1861, to Vol. for 1879, ed. by Perry F. Musey.

Societe Imperiale Polytechnique de Russie. "The Journal of "Imperial Russian Technical Society, (St. Petersburg, Russia,)" "contains: 1. Communications read in the the meetings of the" "Society, with drawings on subjects of Technology, Metallurgy," "Mechanical and Building Engineering, Artillery, Military and" "Naval Science, and Industry, Economical questions. 2. Re-" "ports of the inventions and Discoveries in some sections of" "Technology for the past year, as Water Works, Gas Works," "Metallurgists, drawings. 3. All patents received in Russia," "with the complete description and drawings of them. 4." "Transactions of the Society."

"An octavo, 6 books per year, of 1250 to 1350 pages, and nearly" "100 drawings."

"Vol. I., 1867; Vol. III., 1869, conducted by E. Andreeff; Vol."
 "XII., to 1878, conducted by Th. Zvoff."

"Sections of the Society in the different cities of Russia pub."
 "their Journal."

**South Staffordshire and East Worcestershire Institute of
 Mining Engineers:**

Transactions,—a Vol. of a variable number of pages letter-press
 and plates, devoted to the Engineering Sciences, ed. by Alex.
 Smith, pub. in Dudley, England, in one vol. a year, commencing
 1875. 8vo.

Vol. I., 1875, to IV., 1878.

South Wales Institute of Engineers:

Transactions. Merthyr-Tydfil, 1858——

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Statistics of Mines and Mining in the States and Territories.

See "The Mineral Resources of the United States."

Statistical Society of London:

Proceedings. London, 1834-35.

Journal. London, 1838——

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Surveyor, Engineer, and Architect. See "Architect, Engineer,
 and Surveyor." L. C. P. I.

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Symons's Monthly Meteorological Magazine: 16 pages letter-press
 and cuts, devoted to Meteorological Science, pub. in London, in
 one vol. a year, commencing in June. 8vo.

Vol. I. 1866, to XII., 1878, ed. by G. J. Symons.

The Albany Institute:

Transactions.

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Proceedings,—a continuation of Vol. VI. of the Transactions; a variable number of pages letter-press, devoted to Science, commencing after the first Vol. in October, Albany. 8vo. A. N. S.

Vol. I., November, 1865, to September, 1872; Vol. II., October, 1872, to October, 1874.

The American Architect and Building News: a weekly of 20 pages letter-press, devoted to Constructive and Decorative Art, and to Sanitary Science, as related to Building, pub. in Boston. 4to., in one Vol. a year, commencing January.

Vol. I., 1876, to Vol. IV., 1878, ed. by W. P. P. Longfellow; pub. consecutively by James R. Osgood & Co., and Houghton, Osgood & Co. T. R. E. L. F. I.

Price \$6.00 per annum.

"The American Artisan. See "American Artisan."

The American Builder, a Journal of Art: a monthly illustrated publication of 16 pages letter-press and cuts, ed. by Charles D. Lakey, New York and Chicago, in two Vols. a year, commencing Jan. and July. 4to. \$3.00 per annum.

Vol. I., 1869; Vol. II., Vol. III., Vol. IV.,
Vol. V., Vol. VI., 1872; Vol. VII., 1872; Vol. VII., VIII., 1873;
Vol. IX., 1873; Vol. X., 1874; Vol. XI., 1875; Vol. XII., 1876.
F. I.

With Vol. IX., the word "Industrial" was inserted before Art; and after Vol. X., issued in one vol. a year, commencing January.

The American Gas Light Journal and Chemical Repertory, &c.
See "Mining and Petroleum Standard."

The American Iron and Steel Association :

Annual Report,—a variable number of pages letter-press, pub. in Philadelphia, in one Vol. a year, commencing June or July. 8vo.

Vol. 1865, to Vol. 1878, ed. by the respective Secretaries, R. H. Lamborn, H. McAllister, Jr., and James M. Swank.

Bulletin,—8 pages letter-press, devoted to the interest of Iron and Steel Industry and Tariff, pub. in Philadelphia, in one Vol. a year, commencing after the first Vol. (Sept.) in January. 8vo.

C. S. M. Free to the Trade. Price \$4.00 per annum.

Vol. I., 1866, to Vol. XIII., 1879, ed. by the Secretary.

The American Magazine of Useful and Entertaining Knowledge: monthly of 48 pages, (two columns), devoted to general matters, pub. in one vol. a year, commencing in Sept., 1834. Boston. 4to. M. L.

Vol. I., 1834; Vol. II., 1835, ed. not given.

The American Mechanic. Price \$1.00.

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The American Polytechnic Journal: an illustrated monthly of 80 pages letter-press and cuts, devoted to Sciences, Mechanic Arts, and Agriculture, pub. in two vols. a year, commencing January and July. Washington and New York. 8vo.

Vol. I., 1853; Vol. II., 1853, ed. by C. G. Page, J. J. Greenough and C. L. Fleischman; Vol. III., 1854; Vol. IV., 1854, ed. by C. G. Page and J. J. Greenough.

Here the publication ceased.

The American Railway Times. Boston, 1858.

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The American Repertory of Arts, Science, and Manufactures: an illustrated monthly, containing 80 pages of letter-press, Pub. in two vols. a year, commencing February, 1840, in New York. C. S. M.

Vol. I., 1840; Vol. II., 1840-41; Vol. III., 1841, ed. by James J. Mapes.

"The American Ship": weekly of 8 pages letter-press, devoted to American Industry, Nature, Commerce, Engineering, Navigation, Invention, Yachting, Naval and Revenue Interests, pub. in one vol. a year, commencing October, New York. Folio.

\$2.00 per annum.

Vol. I., 1879, pub. by The American Ship Publishing Co. (Limited.)

"The Annals of Philosophy." See "The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science and Chronological Table."

The Architect: an illustrated weekly Journal of Art, Civil Engineering and Building, containing 12 pages of letter-press, cuts and plates, pub. in London, in two vols. a year, commencing Jan. and July. Folio.

Price \$5.50 per annum or 22s.

Vol. I., 1869, to X., 1873, ed. by T. Roger Smith.

Price \$5.50 per annum or 22s.

The Architect and Builders' Gazette. London, 1849-50.

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The Architect's and Building Operatives: an illustrated weekly of 15 pages letter-press, pub. in London, in one vol. a year, commenced in March, 1849. Folio. Editor not given. F.I.

Vol. I., 1849; Vol. II., 1850, discontinued after this date.

The Architect, Engineer, and Surveyor. London, 1840-43.

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The Architectural Quarterly Review. London, 1851.

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The Architectural Review, and American Builders' Journal: monthly of 64 pages letter-press and cuts, ed. by Sam. Sloan, in one vol. a year, Philadelphia. 8vo.

Vol. I., 1868-69; Vol. II., 1869-70.

The Architectural Sketch-Book. Boston.

Price \$5.00 per annum.

M. L.

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The Army and Navy Chronicle and Scientific Repository." See "Army and Navy Chronicle."

The Artisan, or Mechanic's Instructor. London, 1825.

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"The Artizan": a monthly Journal of Operative Arts: 24 pages letter-press and cuts, pub. in London, in one vol. a year, commencing January. 4to. R. E. L.

Vol. I., 1843, to Vol. II., 1844, ed. by Artizan Club.

New Series, Vol. I., 1845, to Vol. II., 1846, ed. by Artizan Club.

3d Series, Vol. I., 1847, to Vol. II., 1848, ed. by Artizan Club.

Vol. VII., 1849, from commencement to XII., 1854, ed. not given; Vol. XIII., 1855, to XIV., 1856, (or VIII. of New Series), ed. by Wm. Smith; Vol. XV., 1857, (or IX. of New Series), to Vol. XX., 1862, from commencement, (or XIV., New Series), ed. by William Smith.

3d Series, (this is the second 3d Series). Vol. I., 1863, to Vol. IV., 1866, ed. by Wm. Smith.

4th Series, Vol. I., 1867, (or XXV. from commencement), to III. 1869,) (or XXVII., from commenment,) ed. by Wm. Smith.

Vol. IV., 1870, ed. by Peter Soames.

The Arts: monthly of a variable number of pages letter-press, devoted to Science and the Arts, pub. by Joseph M. Hiash & Co., in Chicago. 4to. A. N. S.

Vol. I., 1870.

The Boston Journal of Philosophy and the Arts: a variable number of pages letter-press, exhibiting a view of the progress of discovery of Philosophy, Mechanics, &c., pub. in Boston, in one vol. a year, commencing May, 1823, conducted by J. W. Webster, J. Ware, and Daniel Treadwell. A. N. S.

Vol. I., 1824; Vol. II., from July, 1824,–July, 1825, (J. Ware was omitted); Vol. III., Oct., 1825, Oct., 1826, at this date the publication ceased.

The Boston Mechanic. See "The Young Mechanic."

The British Architect. Manchester, 1874— \$5.41 per annum, 21s. 8d.

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The Builder: "and illustrated weekly magazine for the Drawing room, the Studio, the Office, the Workshop, and the College": a variable number of pages letter-press, pub. in London, in one vol. a year. 4to.

F. I. L. C.

Vol. I., 1843; Vol. II., 1844; Vol. III., 1845, ed. not given.

Title changed in 1846 to "The Builder: an Illustrated Weekly Magazine for the Architect, Engineer, Operative, and Artist": containing 11 pages, pub. in London, one vol. a year. Folio.

Vol. I., 1842, to IX., 1851, ed. not given; Vol. X., 1852, to XXV., 1867, ed. by Geo. Godwin.

With Vol. XXVI., the sub-title changed to "An Illustrated Weekly Magazine for the Architect, Engineer, Archaeologist, Contractor, Sanitary Reformer, and Art Lover," London; no change in size, &c.

Vol. XXVII., 1869, to XXXIV., conducted by Geo. Godwin.

\$5.41 per year, 21. 8d.

The Building News and Engineering Journal: an illustrated Journal, devoted to Architecture, Civil Engineering, the Arts of Design and Building, 32 pages letter-press, and six pages of Illustrations, pub. in London, Eng, in two vols. a year, commencing January and July. Folio. L. C. P. I.

Vol. I., 1854, to Vol. IX., 1862, pub. by Kelly & Co., London; Vol. X., 1863, to Vol. XXXV., June, 1878, pub. by E. J. Kibblewhite.

Price \$6.66 per annum, 26s. 8d.

Canadian Journal of Industry, &c. See "Canadian Journal of Science," &c. L. C. P. I.

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The Canadian Patent Office Record: monthly of 20 pages letter-press and plates, containing a record of the New Patents and Inventions, pub. in Ottawa, in one vol. a year, commencing March. 8vo. F. I. U. S. P. O.

Vol. I., 1873-74, to Vol. VII., 1879, ed. not given.

Price Canada \$2.00; United States \$2.50.

The Carriage Monthly. See "Coach-Makers' Industrial Journal."

The Chicago Railway Review: of 22 pages letter-press, devoted to Railways, Navigation, Telegraphs, Lands and Settlements, Mines and Mining, Manufactures, Finance, Engineering, &c., pub. in Chicago, Ill., in two vol. a year, commencing January and July. 4to.

Vol. I., 1868, to Vol. XVII., 1878, ed. not given, pub. by Willard A. Smith.

Price \$3.00 per annum United States; Price \$4.00 per annum Foreign post-paid.

The Cincinnati Artisan: a monthly of 8 pages letter-press, devoted to descriptions of new machinery; giving mechanical and scientific information for the machinists of the West and South, pub. in Cincinnati, in one vol. a year, commencing Jan., 1878.

Vol. I., Jan. to Dec., 1878, ed. by W. P. Thompson.
50 cents, post-paid.

The Cincinnati Quarterly Journal of Science: 96 pages devoted to general science, pub. in one vol. a year, in Cincinnati. 8vo.

Vol. I., 1874, ed. by S. A. Miller; Vol. II., 1875, ed. by S. A. Miller & L. M. Hosea. F. I.

The Civil Engineer and Architects' Journal, and Scientific and Railway Gazette: monthly, containing 14 pages letter-press, pub. in London, in one vol. a year. 4to. R. E. L.

Vol. I., 1837, to Vol. IV., 1841, ed. not given; Vol. V., 1842, to Vol. VII., 1844, Thomas Barrows proprietor; Vol. IX., 1846, to Vol. XIV., 1851, Wm. Laxton proprietor.

In 1852, Vol. XV., the title was changed by adding the words "Incorporated with the Architect," after Railway Gazette.

F. I. C. L.

Vol. XV., 1852, to Vol. XVII., 1855, Wm. Laxton proprietor; Vol. XVIII., 1855, to Vol. XXI., 1858, Fred. Wm. Lasten proprietor; Vol. XXII., 1859, to XXX., 1867, ed. or proprietor not given.

F. I. C. L.

The Coach Builders' and Saddlers' Journal. London, 1863-64.

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The Colliery Guardian and Journal of the Coal and Iron Trades : 40 pages letter-press, weekly, devoted to the publication of news and scientific articles interesting to the Coal and Iron Trades, pub. in weekly numbers, in two vols. a year, commencing January and July. Folio.

Vol. I., 1861, to XXXVI., 1878, ed. by H. Kirby Atkinson.

Price \$7.58, 3os. 4d. per annum.

The Commissioners of Patents for Inventions :

Specifications of Patents and Provisional Specifications.

London, 1853———

Indexes to Patents, &c. London, 1853———

L. C. P. I.

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The Commissioners of Patents' Journal by authority: weekly, of 30 pages letter-press, devoted to Patents, pub. in London, in one vol. a year; after Vol. XI., 1864, two parts were issued to each vol. 4to. C. S. M. F. I.

Vol. I., 1854, to Vol. XXVI., 1879, ed. not given.

Price 23s. 6d., per annum, post-paid. P. O. F. I.

The Cornwall Polytechnic Society :

Reports,—annual, pub. at Falmouth, London, and Truro, commencing 1833. 8vo. A. N. S. F. I. A. P. S.

1st, 1833, to 45th, 1877, ed. not given.

At the 3d Report the title was changed to “ Royal Cornwall Polytechnic Society.”

The Edinburgh Journal of Science, “ Exhibiting a view of the progress of discovery in Natural Philosophy, Chemistry, Mineralogy, Geology, Practical Mechanics, Telegraphy, Fine and Useful Arts”: monthly of a variable number of pages letter-press, pub. in Edinburgh and London, in two vols. a year, commencing April and November. 8vo. A. N. S. L. C. P. I.

Vol. I., 1826, to Vol. X., 1829, conducted by D. Brewster.

New Series, title changed by dropping the sub-title. Pub. in London, Edinburgh and Dublin. 8vo.

Vol. I., 1829, to Vol. VI., 1832, conducted by D. Brewster.

At this date publication ceased. See “ Chronological Table.”

The Edinburgh Journal of Science. See "The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science," and "Chronological Table."

The Edinburgh Philosophical Journal, "exhibiting a view of the progress of discovery in Natural Philosophy, Chemistry, Natural History, Practical Mechanics, Geography, Statistics, and the Fine and Useful Arts, (started in 1819): an irregular number of pages, pub. in Edinburgh, quarterly, in two vols. a year. 8vo.

C. S. M. A. N. S.

Vol. I., 1819, to Vol. X., 1824, ed. by Dr. Brewster and Prof. Jameson.

In 1824, Vol. X., the agreement made by Dr. Brewster with Prof. Jameson, and the publishers having expired and trouble arising about the title of the new edition, Dr. Brewster withdrew, and started "The Edinburgh Journal of Science," (which see); while Prof. Jameson continued the original Journal until certain claims made by the publishers had been settled, and then issued "The New Edinburgh Philosophical Journal" at the close of Vol. XIV., 1826 of the present Series.

Vol. XL, 1824, to Vol. XIV., 1826, ed. by Prof. Jameson.

Continued as:—

The Edinburgh New Philosophical Journal, "exhibiting a view of the progress of Discovery in Natural Philosophy," &c., (as above): pub. quarterly in Edinburgh, in two vols. a year. (A continuation of "The Edinburgh Philosophical Journal.") 8vo.

A. N. S.

Vol. I., 1826, to Vol. LVI., 1854, conducted by Prof. Robt. Jameson; Vol. LVII., 1854, conducted by Lawrence Jameson, owing to death of Robert Jameson.

New Series, Vol. I., 1855; Vol. II., 1855, ed. by Thomas Anderson, Sir Wm. Jardine, and J. H. Balfour; Vol. III., 1856, to Vol. XIX., 1864, ed. by Thomas Anderson, Sir Wm. Jardine, J. H. Balfour and H. D. Rogers.

See "Chronological Table."

The Electrical News and Telegraphic Reporter. London, 1875—

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The Emporium of Arts and Sciences: an illustrated monthly of 80 pages letter-press, pub. in Philadelphia, in two vols. a year, commencing May and November. 8vo. P. L. F. I.

Vol. I., 1812; Vol. II., 1812, ed. by John Redman Coxe.

In 1813, the New Series was started and pub. bi-monthly, with 183 pages.

Vol. I., 1813; Vol. II., 1813; Vol. III., 1814, conducted by Thos. Cooper.

The English Mechanic and Mirror of Science, with which is incorporated "The Mechanic," "Scientific Opinion," and the 'British and Foreign Mechanic,' forming a record of Engineering, Building, Inventions, Manufactures, Industrial Progress, Astronomy, Electricity, Chemistry, Photography, Mining, Biology, Microscopy, &c.: an illustrated weekly, of 25 pages letter-press and cuts, pub. in London, in one and two vols. a year. Folio. F. I.

Vol. I., 1866? Record of the early vols. unobtainable.

Vol. XI., 1870; Vol. XII., 1871, (the words "Mirror of Science" changed to "World of Science"); Vol. XIII., 1871, Vol. XXI., 1875; sub-title after "British and Foreign Mechanic" dropped; Vol. XXII., 1875-76; Vol. XXIII., 1876; Vol. XXIV., 1876-77.

Price \$3.25, 13s. per annum.

The English Mechanic. Monthly. London. L. C. P. I.

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The Engineer. See "Engineer."

The Engineer: an illustrated weekly publication, containing 6 pages letter-press, and an occasional full page plate, devoted to Engineering in its various branches, two vols. a year, commencing Jan. and July, pub. in London. Folio.

Vol. I., 1856, to Vol. XLIII., 1877, ed. not given.

Price \$9.00, 36s.

"The Engineer, Architect, and Surveyor." See "The Surveyor and Engineer."

The Engineer and Machinist. See "Engineer and Machinist."

The Engineer of the Pacific. See "Engineer of the Pacific."

The English Mechanic and World of Science: an illustrated weekly Journal of Science, 32 pages letter-press, pub. in London, in two half-yearly vols., commencing in March and September. Folio.

Vol. I., March, 1865, to Vol. VIII., Sept., 1868, pub. by George Maddick, London; Vol. IX., March, 1869, to Vol. XXVIII., Sept., 1878.

Price 2d. per number.

The Foreman Engineer and Draughtsman. London, 1871—

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The Engineering and Building News. See "Engineering and Building News."

The Engineering and Mining Journal, with which is incorporated the "Coal and Iron Record" of New York, and "Mining Review" of Denver, Col.: weekly, devoted to Mining Metallurgy, and Engineering, contains 16 pages letter-press and cuts, with occasional plates, pub. in New York, in two vols. a year, commencing January and July. 4to.

Vol. I., 1867, to Vol. XXVI., 1878, ed. by R. P. Rothwell and R. W. Raymond.

In April, 1877, "The Mining Review" was incorporated with the Journal with the title as above.

In 1879, Vol. XXVII., "The Polytechnic Review," of Philadelphia and New York, was incorporated with the above.

L. C. R. E. L. F. I. A. P. S. C. S. M.

\$4.00 per annum; Europe, \$5.00 including postage, 20s., 25 francs; South America, \$6.00, including postage.

The General Magazine of Arts and Sciences. London, 1755-64. L. C. P. I.

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The Glasgow Mechanics' Magazine and Annals of Philosophy: an illustrated weekly, of 16 pages letter-press, pub. in two vols. a year, commencing January and July. Glasgow. 8vo.

Vol. I., 1824, to V., 1834, ed. not given. L. C. P. I.

The Geographical Magazine. See "Ocean Highways."
L. C. P. I.

The Geological Magazine.
Founded under the title:

The Geologist: a popular Illustrated monthly magazine of Geology.
Ed. by S. J. Mackie, one vol. a year. London. 8vo. 1858 to 1864.

A. N. S. L. C. P. I. C. S. M.

In 1864, continued under the title:

The Geological Magazine: monthly, pub. in London, in one vol. a year. 8vo. Ed. by Henry Woodward, Prof. John Morris, and Robert Etheridge.

First Series, Vol. I., 1861, to X., 1873.

Second Series, Vol. I., 1874; Vol. II., 1875, January to June.

Price \$5.25, 21s. A. N. S. L. C. P. I. C. S. M.

The Harness and Carriage Journal: "a weekly Journal, devoted to the trade in Harness, Carriages, Trunks, &c.," pub. in New York, Philadelphia and Boston, in vols. a year.

L. C.

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The Hydraulic Engineer, "Devoted to Hydraulics, Mining, Railroad and Manufacturing Interests": an illustrated monthly of 16 pages letter-press, pub. in Cincinnati by the Hydraulic Engineer Co., in one vol. a year. Folio.

Vol. I., 1875-76; Vol. II., 1877.

The Illustrated Inventor. London, 1857. L. C. P. I.

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The Imperial Journal of Science, Art, Mechanics, and Engineering. Manchester, 1840? L. C. P. I.

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The Implement Manufactures' Review. Illustrated Monthly.
London.

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The Industrial Age.

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The Industrial Monthly. See "The Technologist or Industrial Monthly."

The Industrial Press. Cincinnati, 1870-71. L. C. P. I.

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The Industrial Review. London.

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The Institution of Civil Engineers, Established in 1818:

"Transactions,—a variable number of pages, issued in London. 4to.
C. S. M.

Vol. I., 1836, to Vol. III., 1841, ed. not given. Discontinued.

Minutes of Proceedings of the Institution of Civil Engineers,
with Abstracts of the Discussions: a variable number of
pages letter-press, pub. in London, with cuts and plates. 8vo.

Vol. I., 1837, to Vol. VI., 1847, ed. not given; Vol. VII., 1848,
to Vol. XVII., 1858, ed. by Chas. Manly; Vol. XVIII., 1859, to
Vol. XXI., 1862, ed. by Chas. Manly and James Forrest; Vol. XXII.,
1863, to Vol. LIV., 1878, ed. by James Forrest.

At Vol. XXXIX., the title changed to "Minutes of Proceedings
of the Institution of Civil Engineers, with other selected and ab-
stracted Papers."

Abstracts,—pub. at irregular periods, and consist of papers taken
from the Minutes of the Proceedings."

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The Institution of Engineers and Ship Builders in Scotland :
pub. annually, a vol. of 200 pages letter-press, devoted to
papers and discussions on Engineering, Ship Building, and
Scientific Subjects, pub. in Glasgow, in one vol. a year.

L. C. P. I.

Vol. I., 1858, for first season, 1857-58, to Vol. XXI., 1878.

Ed. from 1857 to 1862, Edmund Hunt; ed. from 1862 to 1871,
I. P. Smith, C. E.; ed. from 1871 to date, W. J. Millar, C. E.

The Inventor : an illustrated monthly of 52 pages letter-press and
cuts, pub. in New York, in two vols. a year, commencing Jan.
and July. 8vo.

Vol. I., 1855; Vol. II., 1856, pub. by Low Haskell & Co.

The Inventors' Advocate. London, 1839-41. L. C. P. I.

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The Inventors' Gazettes. See "Inventors' Gazette."

The Inventor, Patentee, and Manufacturer. London, 1839-41.
L. C. P. I.

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The Iron Age, a review of the Hardware, Iron, and Metal Trades :
weekly of 40 to 48 pages letter-press and cuts, devoted to Iron,
Steel, the Metal Trades, Metallurgy, Hardware, Manufactures,
Engineering, and Applied Science, pub. in New York in two
vols. a year, commencing January and July. Folio. C. S. M.
T. R. E. L. F. I.

Vol. I., Jan. to June, 1861, to Vol. XXII., June 4th to Dec. 26,
1878, ed. by James C. Bayles, pub. by David Williams.

Price \$4.50, post-paid.

"The Ironmonger and Metal Trades Advertiser." London.
L. C. P. I.

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The Iron and Coal Trader's Review. London.

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The Iron and Metal Review. Price \$4.25.

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The Journal of Gas Lighting: illustrated, from 8 to 20 pages letter-press, pub. in London, quarterly, with an intermediate supplement on the 10th of each month, one vol. a year, commencing January. 4to. C. S. M.

Vol. I., 1849-50; Vol. II., 1851-52; Vol. III., 1853-54; Vol. IV., 1854-55; Vol. V.,—1855-56; Vol. VI., 1857, ed. by Thomas G. Barlow.

In 1857, the word "Water Supply and Sanitary Improvement" added to the title, and pub. in London and New York as a weekly. Folio.

Vol. VII., 1858-59, to Vol. XVIII., 1869, ed. by Thos. G. Barlow.

In 1870, Vol. XIX., the New York office was abandoned; Vol. XX., 1871, to Vol. XXII., 1873, ed. not given.

In 1874, Vol. XXIII., the Journal was issued in two vols. a year, January and July. Vol. XXIII., 1874, to Vol. XXIX., 1877, ed. not given. L. C. P. I.

Price \$7.75, 3rs. per annum.

"**The Journal of Science and the Arts.**" See "Royal Institution of Great Britain."

The Life Boat; or, Journal of the National Life Boat Institution: a semi-annual of 120 pages with cuts, maps, and engravings, pub. in London. Vols. range over from one to two years.

Vol. I., 1852; Vol. II., ———; Vol. III., ———; Vol. IV., ———; Vol. V., 1862-65; Vol. VI., 1866-68; Vol. VII., 1869-70, ed. not given.

The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science: monthly, consisting of 79 pages of letter-press with plates and cuts, issued in London, two vols. in each year. 8vo. C. S. M.

"The complete series of what is now known as "The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science" embrace:

"Nicholson's Journal of Natural Philosophy," 1797, to 1813.

First and Second Series:

"The Philosophical Magazine," ed. by Alex. Tilloch."

In 1813, Nicholson's "Journal of Science," and Tilloch's "Philosophical Magazine" were merged in one, under the title: "The Philosophical Magazine and Journal."

"The Philosophical Magazine and Journal."

"The Annals of Philosophy," ed. by Thomas Thompson. This was in 1827, merged into "The Philosophical Magazine and Journal," forming its Second Series.

"The Edinburgh Journal of Science," 1824 to 1832, First and Second Series. This was in 1832, merged with the Second Series of "The Philosophical Magazine and Journal," under the title of "New Series of London and Edinburgh Philosophical Magazine and Journal of Science."

The Fourth Series was changed to "London, Edinburgh, and Dublin Magazine and Journal of Science."

The First Series was ed. by Alex. Tilloch. Vol. I., to XLII., 1789 to 1813.

Second Series, ed. by Richard Taylor. Vol. XLIII., to LXVII., 1814 to 1831.

New Series, ed. by Sir David Brewster, Richard Taylor, Richard Phillips, Sir Robert Kane, and Edward W. Brayley.

Vol. I., to XXXVII., 1832 to 1850.

Fourth Series, ed. by Sir Robert Kane, Sir Wm. Thompson, Wm. Francis and others.

Vol. I., 1851, to XLIX., 1875.

Fifth Series: Vol. I., 1876, to Vol. VII., 1879, ed. by Sir Robert Kane, Sir William Thompson, and William Francis.

A. P. S. C. S. M. T. R. E. L. F. I.

Price \$8.93, 35s. 8d. per annum. See "Chronological Table."

The London Journal of Arts and Sciences, containing reports of all new patents, also original communications on subjects connected with Science and Philosophy; particularly such as embrace the most recent Inventions and Discoveries in Practical Mechanics: a Monthly of 80 pages, letter-press and plates, pub. in London, in one and two vols. a year. 8vo.

First Series: Vol. I, 1820, to Vol. II., 1821, ed. not given.

In 1822 pub. in two vols. a year.

Vol. III., 1822, to Vol. XIV., 1828, ed. by W. Newton.

Second Series: Vol. I., 1828, to Vol. V., 1830, ed by W. Newton and C. E. Partington; Vol. VI., 1831, to Vol. IX., 1832, ed. by W. Newton.

Conjoined Series, title changed to:

The London Journal of Arts and Sciences, and Repository of Patent Inventions: London, a union of "The London Journal of Arts and Sciences," and "The Repository of Patent Inventions," two vols. a year, letter-press unchanged.

Vol. I., 1832, to Vol. XLV., 1854, conducted by W. Newton and others.

The word "Manufactures" was inserted after "Sciences," in Vol. XXII., New Series.

Title changed to:

Newton London Journal of Arts and Sciences, being a record of the Progress of Inventions as applied to the Arts, (Established in the year 1820.) London, two vols. a year.

Vol. I., 1855, to Vol. XXIII., 1866, ed. not given.

At this date the publication ceased, (1866).

"The London Polytechnic Magazine. See "Polytechnic Review and Magazine of Science, Literature, and the Fine Arts."

"The Locomotive": monthly Journal of 8 pages, pub. by the Hartford Steam Boiler Inspection and Insurance Company, Hartford, Conn., issued in one and two vols. a year. 4to.

Vol. I., ——— to Vol. X., 1878, ed. not given.

The Magazine of Science and School of Arts, Intended to illustrate the most useful, novel and interesting parts of Natural History, and Experimental Philosophy, Artistical Processes, Ornamental Manufactures, and the Arts of Life: weekly of 8 pages letter-press, pub. in London, in one vol. a year, commencing April. 8vo. L. C.

Vol. I., 1839, to Vol. IV., 1842, ed. not given; Vol. V., 1843, to Vol. VI., 1844, ed. by G. Francis.

The Magazine of Popular Science, and Journal of the Useful Arts: an illustrated Journal of 72 pages, letter-press, pub. in London, in six parts to the vol., ed. under the direction of the Society for the Illustration and Encouragement of Practical Science at the Lowther Arcade, in two vols. a year. A. N. S.

Vol. I., 1836; Vol. II., 1836; Vol. III., 1837; Vol. IV., 1838; ed. not given.

The Manchester Geological Society:

Transactions,—a variable number of pages, pub. in London, annually. 8vo. A. N. S.

Vol. I., 1841.

The Manchester Steam Users' Associations :

Reports,—an annual publication of a variable number of pages, devoted to the cause of explosions and other matters of interest connected with Boilers and Engines. 8vo.

Report for 1855, to Report for 1863, ed. not given.

Monthly Reports superceded the Annual Reports in 1862, and continued to date (size of pages, &c., not given, by correspondent.)

The Manufacturer. London, 1875——

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The Manufacturer and Builder, a Practical Journal of Industrial Progress: an illustrated monthly containing 28 pages of letter-press with cuts, pub. in one vol. a year, in New York, by Western & Co. F. I. C. S. M.

Vol. I., 1869, to Vol. VIII., 1876, ed. not given.

At Vol. IV., the sub-title was dropped.

Price \$2.00 per annum.

The Marine Engineering News. London, 1876—— L. C. P. I.

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The Mathematical Monthly. Cambridge, U. S., 1858-61.
L. C. P. I.

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“**The Mechanic.**” See “**The English Mechanic.**”

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The Mechanic. Smithville, N. J. \$1.00.

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“**The Mechanic.**” See “**The Young Mechanic.**”

The Mechanics' Magazine and Journal of Engineering, &c.
See "Mechanics' Magazine, Museum, &c."

The Mechanics' Magazine and Journal of Public Internal Improvements, devoted to the Useful Arts, and the recording of Progress, Inventions and Discoveries of the Age: monthly, of 32 pages letter-press, pub. in one vol. a year, commencing Feb. Boston 8vo. F. I.

Vol. I., 1830, ed. not given.

The Mechanic's Oracle. (Tilloch.) London. 1824-25.
L. C. P. I.

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The Mechanics' Weekly Journal, or Artisans' Miscellany of Inventions, Experiments, Projects, and Improvements in the Useful Arts: of 16 pages letter-press with cuts, pub. in two vols. a year, commenced in November, 1823. 8vo.

Vol. I., 1823.

The Messenger of Mathematics. (Oxford, Cambridge and Dublin.) London. Monthly.

"**The Metallurgical Review**": monthly, of 100 pages letter-press and cuts, pub. in New York, in one vol. a year, commencing September. 8vo. R. E. L.

Vol. I., Sept., 1877, to February, 1878; Vol. II., March to August, 1878, ed. and pub. by David Williams.

Price \$5.00. Publication ceased.

The Metric Bulletin, the Official Journal of the American Metric Bureau: monthly of 4 pages, devoted to the dissemination of information concerning the Metric System, pub. in Boston, commencing July, 1876, issued in two vols. a year. 8vo.

Number 1 to 6, 1876, July to December; number 7 to 18, 1877, January to December. P. O.

The Midland and Northern Coal and Iron Trades Gazette.

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The Millers' Journal, devoted to the interests of Millers, Millwrights, Mill Furnishers, &c. : monthly, of pages letter-press and cuts, pub. in New York, in vols. a year, commencing 4to.

The Mill Stone, Official organ of the Indiana Millers' State Association, and of the Millers' National Association of the United States: a monthly of 14 pages letter-press and cuts, pub. in Indianapolis, in one vol. a year, commencing November. Folio.
Vol. I., 1876, to Vol. IV., 1879, ed. H. Herbert Emery.
Price \$1.00 post-paid. F. I. L.

The Mineral Resources of the United States :

Report of the Commissioner,—a variable number of pages pub. in Washington, annually,

Vol. for 1867, ed. by Commissioners J. R. Browne and J. W. Taylor.

In 1868 title was changed to "Mineral Resources of the States and Territories west of the Rocky Mountains."

Vol. for 1868, for the Commissioners, by J. R. Bland; Vol. for 1869, for the Commissioners, by J. R. Bland & R. W. Raymond.

In 1870 title changed to "Statistics of Mines and Mining in the States and Territories west of the Rocky Mountains."

Vol. for 1870, to Vol. for 1875, ed. by R. W. Raymond. F. I.

The Mines, Metals, Arts and R. R. Journal.

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The Mining and Smelting Magazine. London, 1862-64.

L. C. P. I.

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The Mining Journal, Marquette, Lake Superior, Michigan : a weekly of 8 pages letter-press, devoted to Iron, Mining and Manufacture, established in 1845, one vol. a year, commencing January.

Vol. I., 1845 to Vol. XXXIII., 1878, ed. or pub. by A. P. Gwineford.

"First established at Copper Harbor, Lake Superior, by John N. Ingersoll, in 1850 removed to South St. Maria; in 1856 removed to Marquette. In the meantime, ed. by Hon. John Burt, H. Hosmer, and Stephen Rice, till 1868, when it came into hands of present ed. and pub."

The Mining Journal and Commercial Gazette: weekly of 8 pages letter-press, pub. in one and two vols. a year, commenced August, 1835. London. Folio. L. C. P. I. L. C.

Vol. I., 1835, August to December, conducted by Henry English; Vol. II., III., date unknown.

In 1837, Vol. IV., ? a sub-title was added, (a Journal of Geology, Metallurgy and Mineralogy, and pub. in two vols. a year, Jan. and July.

Vol. IV., 1837, to Vol. IX., 1839, ed. not given; Vol. X., 1840, to Vol. XV., 1845, ed. not given.

After Vol. X., 1840, pub. in one vol. a year.

In 1846, Vol. XVI., the title was changed to "The Mining Journal Railway and Commercial Gazette, forming a complete history of the Commercial and Scientific progress of Mines and Railways, and of all new Inventions and Improvements in Mechanic and Civil Engineering."

Note.—The above is on the title page on the bound vol.; on the heading of the separate parts is the following:

"The Mining Journal and Atmospheric Railway Gazette," pub. in one vol. a year. London.

Vol. XVI., 1846, to Vol. XVIII., 1848, ed. not given. With this vol. the title "Mining Journal and Atmospheric Railway Gazette" was dropped.

Vol. XIX., 1849, to Vol. XLVII., 1877, ed. not given.

Price \$8.66, 34s. 8d. per annum.

The Mining Journal, Railway and Commercial Gazette, forming a complete record of the proceedings of all public companies: weekly newspaper of 28 pages letter-press, devoted to Mining and Metallurgical Industry and Commerce, and to the description of Inventions connected therewith, pub. in two vols. a year for first few years and one vol. a year since. London. Folio.

Vol. I., 1835, to Vol. XLVIII., 1878, ed. and pub. by Henry English and Richard Middleton.

The Mining Magazine and Review. London, 1872. L. C. P. I.

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The Mining Magazine, devoted to Mines, Mining Operations, Metallurgy, &c.: an illustrated monthly of 6 pages letter-press, pub. in two vols. a year, January and July, New York, commenced July, 1853. 8vo. C. S. M.

Vol. I., 1853, ed. by Wm. J. Tenney; Vol. II., 1854, ed. by Wm. J. Tenney and Aug. Partz; Vol. III., 1854, ed. by Wm. J. Tenney S. P. Leeds and Aug. Partz; Vol. IV., 1855, Vol. V., 1855, ed. by Wm. J. Tenney, S. P. Leeds; Vol. VI., 1856, to Vol. IX., 1857, ed. by Wm. J. Tenney; Vol. X., 1858, to Vol. XI., 1858, ed. by Thos. McElrath.

Second Series, title changed to "The Mining Magazine and Journal of Geology, Mineralogy, Metallurgy, Chemistry and the Arts, in their applications to mining and useful ores and metals," pub. in one vol. year, otherwise no change.

Vol. I., 1860, ed. by Wm. P. Blake.

In 1861, the Journal was pub. quarterly.

Vol. II., 1861, ed. by Wm. P. Blake. L. C. P. I. R. E. L.

The Mining and Scientific Press: a weekly of 16 pages letter-press and illustrations, devoted to Pacific Coast Mining, Mechanical, Scientific and Engineering News, and industrial and scientific progress generally. Makes a specialty of patents issued to Pacific Coast Inventors, pub. in San Francisco, California, in 2 vols. a year, commencing Jan. and July. C. S. M.

Vol. I., 1860, to Vol. XXXVI., 1878, ed. or pub. by Dewey & Co.

The Mining Record of North America. Georgetown, Col.
Price \$3.00.

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The Mining World. (Weekly). London.

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The Monthly American Journal of Geology: a variable number pages and plates, ed. by G. Featherstonhaugh, Philadelphia, 1831. 8vo. P. L. A. N. S.

The Monthly Nautical Magazine and Quarterly Review : 64 pages letter-press, devoted to Marine Affairs, ed. not given. New York. 8vo. A. N. S.

Vol. I., 1854-55; Vol. II., 1855.

In 1856, the title changed to "The United States Nautical Magazine and Naval Journal : pub. monthly, enlarged to Royal octavo, issued in two vols. a year, and continued as Vol. III. of old Series.

Vol. III., 1855-56; Vol. IV., 1856-57; Vol. V., 1856-57; Vol. VI., 1857-58, ed. not given.

"The National Car Builder ": monthly of 8 pages letter-press, devoted to the interests of Railway Rolling Stock, pub. in New York in two vols. a year, commencing January and July. 4to.

Vol. I., 1870; Vol. II., 1872; Vol. III., 1872-74; Vol. IV., —; Vol. V., 1874, pub. by Voce, Dinsmore & Co.; Vol. VI., —; Vol. VII., —; Vol. VIII., —; Vol. IX., 1878, ed. by J. Gilbert, Boston and New York.

The National Institution for the Promotion of Science, established at Washington, 1840 :

Proceedings,—a volume of variable number of pages, pub. at irregular periods, ed. by Joel R. Poinsett. 8vo.

Vol. I., 1841-1846. A. N. S.

The National Magazine and Industrial Record : monthly of 96 pages letter-press, devoted to Science, ed. by Redwood Fisher, in two vols. a year, commencing June, 1845. New York. 8vo.

Vol. I., 1845; Vol. II., 1845-46; Vol. III., 1846.

Vol. III., 1846, title changed to "Fisher's National Magazine and Industrial Record." A. N. S.

The Nautical Gazette : an illustrated weekly Journal of 8 pages letter-press, devoted to Commerce, Navigation, Ship Building, Marine Engineering, the Navy, &c., pub. in New York in two vols. a year. 4to.

Vol. I., 1871, to Vol. VII., 1874, ed. not given. (In 1874, Vol. VII., the number of pages was doubled.) Vol. VIII., 1875, to Vol. X., 1876, ed. not given.

The Nautical Magazine, a Journal of Papers on Subjects connected with Maritime Affairs in general: monthly of 62 pages, pub. in 1 vol. a year, in London. 8vo.

Vol. I., for 1832, to Vol. V., for 1836, ed. not given.

In 1837 the title changed to "The Nautical Magazine and Naval Chronicle," with subtitle, "A Journal of Papers on Subjects connected with Maritime Affairs." Enlarged edition.

Vol. I., 1837, to Vol. XXII., 1859, ed. not given, pub. London; Vol. XXIII., 1860, to XXXIX., 1877, pages doubled.

Price \$4.20 per annum.

The Naval Chronicle: pub. at irregular periods containing 75 pages with engravings, issued at London in two vols. a year, commencing January and July. 8vo.

Vol. I., 1799, to Vol. XX., 1808, ed. not given.

In 1809, Vol. XXI., the title changed to "The Naval Chronicle containing a general and Biographical History of the Royal Navy of the United Kingdom, with a variety of Original Papers on Nautical Subjects, under the guidance of several Literary and Professional Men. London.

Vol. XXI., 1809, to Vol. XL., 1818, ed. not given.

The Naval Magazine: a bi-weekly Journal, devoted to Maritime Affairs, contains a variable number of pages of letter-press and cuts, ed. by Rev C. S. Stewart and a committee, commenced January, 1836, pub in one vol. a year. New York. 8vo. F. I.

Vol. I., 1836; Vol. II., 1837.

The Naval and Military Gazette. Weekly. London.

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"The Naval and Military Magazine": quarterly, devoted to the Interests of the Army and Navy, pub. in London, in one vol. for each quarter. 8vo.

Vol. I., II., III. and IV., for 1827, to Vol. V., VI., and VII., 1828, ed. by T. C. Smith.

The Navy. Weekly. London.

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The New London Mechanics' Register and Magazine of Science and the Useful Arts :

Reports of the Lectures delivered at the London Mechanics' Institute: an illustrated vol., issued annually. London. 8vo.

Vol. I., 1827; Vol. II., 1828.

The New York Coachmakers' Monthly Magazine : a 16 page Journal, devoted to the Literary, Scientific, and Mechanical interests of the craft, pub. in one vol. a year, commencing June. 4to

Vol. I., 1858-59, to Vol. XI., 1869-70, ed. by E. M. Stratton; Vol. XII., 1870-71, ed. by Geo. W. W. Houghton.

The New York Sketch Book of Architecture. New York. \$500.

The North of England Institute of Mining and Mechanical Engineers :

Transactions,—a vol. of about 250 pages letter-press and numerous plates, devoted to information on all matters relating to Mining and Mechanical Engineering, pub. at Newcastle-on-Tyne, in parts forming one vol. a year, commencing August, 1852. 8vo.

Vol. I., to Vol. XXVII., and General Index for Vol. I. to Vol. XXV., pub. by the Institute. L. C. P. I.

The Operator : a Journal of Scientific and Practical Telegraphy, giving attention to recent discoveries and Inventions in Electricity, a semi-monthly of 12 pages letter-press, pub. in New York, in one and two vols. a year, established March, 1874, running two vols. a year until 1878; afterwards one.

Vol. I., 1874, to Vol. XI., 1878, ed. and pub. by W. J. Johnson. P. O.

The Patent Journal and Inventors' Magazine : monthly, containing 40 pages letter-press and cuts, pub. in two vols. a year, commencing May and November. London. 8vo.

Vol. I., 1846, ed. by Chas. Barlow; Vol. II., 1847, to Vol. V., 1848, ed. Charles Barlow and E. J. Payne.

In 1849, Vol. VI., the size was increased to quarto, and pub. weekly, with 10 pages of letter-press. September to April.

Vol. VI., 1849, to Vol. XII., 1852, ed. by Chas. Barlow.

The Patent Right Gazette: an illustrated monthly Journal of the Industrial Arts, especially devoted to the Sole Description and Illustration of Patents, and to the latest progress in Engineering, Manufacturing, Building, and a choice selection of entertaining literature, contains 16 pages of letter-press and cuts, pub. in New York in two vols. a year, commencing May and November. 4to.

Vol. I., 1871, to Vol. V., 1873, pub. by U. S. Patent Right Association.

The Philosophical Magazine. See "The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science," and "Chronological Table."

"The Philosophical Magazine and Journal:" See "The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science," and "Chronological Table."

The Plumber and Sanitary Engineer, Water Supply, Drainage, Heating and Lighting: a monthly of 23 pages, pub. in New York, in one vol. a year, commencing December, 1877. Folio.

Vol. I., 1877-78, ed. by Charles F. Wingate.

A. P. S. F. I. P. O.

The Polytechnic Review, devoted to Science as applied to the useful arts: weekly, containing six pages of letter-press and cuts, pub. in Philadelphia by W. H. Wahl & Robt. Grimshaw, two vols. in each year, started in 1876. Folio.

Vol. I. and II., 1876; Vol. III. and IV., 1877; Vol. V. and VI., 1878, to 1879.

In 1879 merged into the "Engineering and Mining Journal."

T. R. E. L. A. P. S.

\$3.00 for U. S., post-paid; \$4.00=16s. for England.

"The Polytechnic Review." See "Polytechnic Review and Magazine of Science," &c.

"The Practical Mechanic and Engineers' Magazine": an illustrated monthly, containing 40 pages, pub. in Glasgow, in one vol. a year, at irregular periods, by W. C. Pattison,—Glasgow,—and G. Herbert,—London. 4to.

Vol. I., 1841; Vol. II., 1843; Vol. III., 1843; Vol. IV., 1845; New Series, Vol. I., 1846; Vol. II., 1850, ed. not given.

The Practical Mechanics' Journal: an illustrated monthly of 34 pages, pub. in one vol. a year, (commenced in April, 1848). 4to. R. E. L.

Vol. I., 1848; Vol. II., 1849, ed. by Wm. Johnson, Glasgow; Vol. III., 1850-51, to Vol. VI., 1853-54, ed. by Wm. Johnson, London and Glasgow.

Second Series, Vol. I., 1856-57; Vol II., ———; Vol. III., 1858-59; Vol. IV., 1859-60, ed. by Wm. Johnson, London and Glasgow; Vol. V., 1860, to Vol. IX., 1864, ed. not given.

Third Series, Vol. I., 1865, to Vol. IV., 1868, ed. not given.

The Practical Magazine: an illustrated cyclopædia of Industrial News, Inventions and Improvements, collected from Foreign and British sources, for the use of those concerned in Raw Materials, Machinery, Manufactures, Building and Decoration; a monthly, of 80 pages letter-press with plates, cuts and diagrams, pub. in London, in two vols. a year, commencing Jan. and July. Folio. Vol. I., 1873, to Vol. IV., 1874, ed. not given. New Series, Vol. V., 1875.

Price \$4.20 per annum.

The Quarterly Journal of Pure and Applied Mathematics: 96 pages of letter-press with diagrams, ed. by J. J. Sylvester, N. M. Ferrers, G. G. Stokes, A. Cayley and M. Hermite, pub. irregularly in London. 8vo. R. E. L.

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Numbers 49, 50, 51, 52, 1874; Num. 53, 1875; Num. 54, 55, 1876; Num. 56, 57, 1877.

Price \$5.50, 22s.

The Quarterly Mining Review: 28 pages of letter-press and plates, pub. in London, in one vol. a year, commencing March. 8vo. P. L.

Vol. I., 1830; Vol. II., 1831, ed. by H. English.

"The Railway Age," containing general information pertaining to the Railway Interests of the country, &c.: weekly, of 28 pages letter-press, devoted to all matters pertaining to Organization, Construction, Operation and Management of Railways in the United States and Europe, pub. in Chicago, Ill., in one vol. a year, commencing January. Folio.

Price \$4.00 per annum.

Vol. I., 1876, to Vol. III., 1878, ed. by E. H. Talbott and H. R. Hobart.

Pub. by "The Railway Age Publishing Co."

The Railroad Gazette. See "Railway Gazette."

The Railway Magazine, and Annals of Science: containing copious accounts of all Railways at home and abroad, notices of Inventions and Scientific Discoveries: monthly, of 48 pages, pub. in London, in two vols. a year, (after the first year), commencing Jan. and July. 8vo.

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New Series, Vol. I., 1836, to Vol. VI., 1839, ed. by John Herapath.
Continued as "Railway Magazine and Commercial Journal."

The Railway Magazine and Commercial Journal: a weekly of 24 pages letter-press, devoted to Banks, Steam, Navigation, Mines, Canals, &c., pub. in London, in one a vol. year, commencing in January. 4to.

Vol. I., 1839; Vol. II., 1840, ed. by John Herapath.

In 1841, Vol. III., the title changed to "Herapath's Railway and Commercial Journal and Scientific Review."

Vol. III., 1841; Vol. IV., 1842, ed. by John Herapath.

In 1843, Vol. V., title again changed to "Herapath's Railway and Commercial Journal." Established in 1835, as "The Railway Magazine."
R. E. L.

Vol. V., 1843; Vol. VI., 1844; Vol. VII., 1845, ed. by John Herapath.

After 1845, pub. two vols. a year, commencing January and July.

Vol. VIII., 1846, to Vol. XXXIX., 1877, ed. by John Herapath.

Price \$6.50, 26s. per annum.

"The Railway Magazine and Commercial Journal." See "The Railroad Magazine and Annals of Science."

"The Railway Monitor": semi-monthly Journal of General Railroad Intelligence, contains 32 pages of letter-press, pub. in New York, in one vol. a year, commencing January 15th, 1873. 4to. Vol. I., 1873, T. W. Jones, Business Manager.

"The Railway News and Joint Stock Journal": weekly, of 23 pages letter press, pub. in London, in two vols. a year, commencing in January and July. Folio. Vol. I., ———, to Vol. XXVII., 1877, ed. not given. Price \$7.70, 30s. 10d. per annum.

"The Railroad Gazette." See "The Western Railroad Gazette."

The Railway Record. (Current details of English and Foreign Railways.) Weekly. London.

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The Railway Portfolio. See "Railway Register." L. C. P. I.

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The Railway Review. Chicago. Price \$3.00 per annum. L. C. P. I.

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The Railway Service Gazette. (Advocate of R. R. reform car fare, &c.) Weekly. London.

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The Railway Times: weekly, containing 5 pages of letter-press, devoted to Railway and Engineering Interests, pub. in Boston, in one vol. a year. 4to. Vol. I., ———, to Vol. XIX., 1867, ed. not given.

The Railway Times. London, 1838—— Price \$6.50, 26s.

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The Register of the Arts and Sciences. (Hebert.) London, 1823-32.

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The Repertory of Arts and Manufactures, consisting of Original Communications and Specifications of Patents, Inventions, from the Transactions of the Philosophical Societies of all Nations: an irregular number of pages, pub. in London, in two vols. a year. 8vo.

Vol. II. and III., 1795, to Vol. XV., 1801; Vol. XVI., 1802, ed. not given.

New Series, title changed to "The Repertory of Arts, Manufactures, and Agriculture.

Vol. I., 1802; Vol. II., 1803, to Vol. XLVI., 1825, ed. not given.

Continued as "The Repertory of Patents, Inventions," &c.

The Repertory of Patents, Inventions and other Discoveries and Improvements in Arts, Manufactures and Agriculture, being a continuation, on an enlarged plan, of "The Repertory of Arts and Manufactures": monthly, containing 72 pages of letter-press and plates, issued in two vols. a year, in London, commencing January and July. 8vo.

Vol. I., 1825, to Vol. XVII., 1833, ed. not given.

New or 4th Series, Vol. I., 1834, to Vol. XVIII., 1842, ed. not given.

Enlarged or 5th Series, Vol. I., 1843, to Vol. XL., 1862, ed. not given.

In December, 1862, the publication was discontinued.

"The Road": "a Fortnightly Review of Railway Practice," of 16 pages letter-press, ed. by Thomas S. Fernon, in one vol. a year, Philadelphia and New York. 4to. A. N. S. L. C.

Vol. I., 1875; Vol. II., 1876.

The Royal Military Chronicle; or, The British Officers' Monthly Register, Chronicle, and Military Monitor: containing 79 pages of letter-press, pub. in London, in two vols. a year.

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New Series, Vol. I., 1814, July to November.

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The Royal Institute of Cornwall:
Transactions.

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The Saddlers', Harness Makers' and Carriage Builders' Gazette.
Monthly. London.

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The Scientific Artisan. Cincinnati, 1858-59.

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The Scientific Association of Trinidad:
Proceedings. Port of Spain, 1866——

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The Scientific Review and Journal of the Inventors' Institute:
monthly of 20 pages, pub. in London, in one vol. a year. 4to.
Vol. I., 1866? to Vol. V., 1870, ed. not given.

In 1870 the title changed to "Scientific Review and Record of Progress in Art, Industry and Manufactures, and Journal of the Inventors' Institute," London.

Vol. VI., 1871, to Vol. VII., 1872, ed. not given.

In 1873, Vol. VIII., (or New Series, Vol. I.,) title changed to "The Scientific and Literary Review, and Record of Progress in Art Industry and Manufactures," incorporated with the "Journal of the Inventors' Institute."

Vol. II. or IX., 1874, to Vol. VI. or XIII., 1878, ed. not given.

The Society of Telegraph Engineers, London :

Journal,—500 pages letter-press with plates, devoted to Telegraph Engineering, including Electricity and its application: being a record of the Proceedings of the Society, pub. in quarterly parts, forming one vol. a year commencing 1872-73. 8vo.

Vol. I., 1872-3, to Vol. VI., 1878, ed. by the Secretaries.

Note.—The Society was formed in 1871, and the first part of the Journal was pub. in 1872.

Price \$1.70 per part.

The Surveyor and Engineer: a monthly of a variable number of pages, 4to., devoted to Engineering and allied Subjects, pub. in Chicago, in two vols. a year.

Vol. I., 1874.

In May, 1874, the title was changed to "The Engineer, Architect, and Surveyor," otherwise no change.

Vol. I., 1874, ed. by Charles J. Moore and George H. Frost.

On January 1st, 1875, the title changed to "Engineering News," pub. as a Journal of Periodical Science and Public Improvement: devoted to the Interests of Engineers, Surveyors and Architects, and and secondarily to Railway Officers, Employees, Capitalists, &c., issued monthly by G. H. Frost, Chicago; 6 pages letter-press, one vol. a year. 4to.

Vol. I., 1875, to Vol. V., 1878, ed. by G. H. Frost.

In 1876 issued as a weekly.

Price \$3.00 per annum.

R. E. L. F. I.

The Technologist, especially devoted to Engineering, Manufacturing, and Building: monthly of 36 pages letter-press and cuts, pub. in New York in one vol. a year. 4to.

Vol. I., 1870, ed. by John Phin and L. F. Olney; Vol. II., 1871, ed. by J. P. and C. P. Dwyer.

Continued as:

The Industrial Monthly: a practical journal for Manufactures, Mechanics, Builders, Inventors, Engineers and Architects, with a Record of Railway Progress; illustrated of 34 pages, pub. in New York, in one and two vols. a year, commencing 1872. 8vo.

Vol. I., 1872; Vol. II., 1873; Vol. III., 1874; Vol. IV., Vol. V., Vol. VI., ———; Vol. VII., 1876, to Vol. VIII., 1877, ed. by J. Phin & L. H. Mitchell. C. S. M. L. C. P. I.

Price \$4.00 per annum.

The Technologist. London, 1860-66.

L. C. P. I.

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The Technical Educator. Illustrated Monthly, London.

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The Technical Educator. Illustrated Monthly, London.

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The Technical Repository, containing Practical Information on subjects connected with Discoveries and Improvements in the Useful Arts: monthly of 80 pages letter-press and numerous engravings, pub. in London, in two vols. a year. 8vo.

Vol. I., 1822, to Vol. XI., 1827, ed. by Thomas Gill.

In 1827 the title changed to "Gill's Technical Repository; or, Discoveries and Improvements in the Useful Arts," issued irregular.

Vol. I., 1827; Vol. II., 1825; Vol. III., 1829; Vol. IV., 1829, ed. not given.

In 1829, Vol. IV., the title was changed to "Gill's Technological and Microscopic Repository," and assumed more of the character of a Microscopical Journal.

Vol. V., 1829; Vol. VI., 1830.

Note.—At this date it lost its Engineering interest.

"The Telegrapher": monthly of 8 pages, pub. in New York in one vol. a year, commencing September, 1864. 4to.

Vol. I., 1864-65.

Price \$2.00 per annum.

Telegraphic Journal. (Truscott & Simmons.) London, 1864.

Price \$2.50, 10s. per annum.

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The Telegraphic Journal and Electrical Review : monthly, containing 18 pages of letter-press and cuts, pub. in London by Henry Gillman, in one vol. a year, commencing November. 4to.

Vol. I., November, 1872-November, 1873, to Vol. IV., 1876, ed. not given. R. E. L.

Price 4d. per number ; 4s. per annum.

The Tradesman or Commercial Magazine, including subjects relating to Commerce, Foreign and Domestic, with exposition of the History and Progress of Manufactures, and giving information on Fisheries, Mines, the Coal Trade, Canals, &c. : monthly of 92 pages letter-press, pub. in London, in two vols. a year, commencing July and January. 8vo.

Vol. I., 1808, to Vol. VIII., 1812, ed. not given.

The U. S. Nautical Magazine and Naval Journal. See "The Monthly Nautical Magazine and Quarterly Review."

United States Railroad and Mining Register : Weekly. One vol. a year. Philadelphia, 1856 to 1874. C. S. M.

.

In January, 1875, this Journal was incorporated in the "Railway World," which see

The United States Patent Office, Washington, D. C.

Annual Reports of the Commissioner of Patents :

Mechanical Reports,—for the years 1845 to 1853, regular one vol. a year ; 1854, Vols. I., II. ; 1855, Vol. I., II. ; 1856, Vol. I., II., III. ; 1857, Vol. I., II., III. ; 1858? 1859, Vol. I., II. ; 1860, Vol. I., II., III., IV. ; 1861, Vol. I., II. ; 1862, Vol. I., II. ; 1863, Vol. I., II. ; 1864, Vols. I., II. ; 1865, Vol. I., II. ; 1866, Vol. I., II., III. ; 1867, Vol. I., II., III. ; 1868, Vol. I., II., III., IV. ; 1869, Vols. I., II., III., ed. not given.

Official Gazette of the United States Patent Office : weekly, of 26 pages letter-press and cuts, containing a record of Patent Inventions, pub. in Washington, in two vols. a year, commencing January and July, (pub. according to act of Congress, 1870.) 4to. Vol. I., 1872, to Vol. XIII., 1878, ed. not given.

R. E. L. F. I.

The Western Manufacturer. Chicago. Monthly. 2 00
L. C. P. I.

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"The Western Review of Science and Industry: montly, of 64 pages letter-press, devoted to a careful resume of the the most important and recent discoveries and inventions, and treatises of eminent practical scientists, in the various departments of Mechanics and Engineering; Chemistry and Metallurgy; Geology and Archæology; Meteorology, Electricity and Climatology; the Mechanical and Chemical Arts; Agriculture and Horticulture; Materia Medica, Therapeutics and Hygiene; Domestic and Household Economy; Miscellany, and reviews and Notices of scientific works, exchanges, &c. Pub. in one vol. a year in Kansas City, Mo., commencing April. 8vo."

Vol. I., 1877, to Vol. II., 1878, ed. and pub. by Theodore S. Case.
R. E. L.

The Wisconsin Academy of Science, Arts and Letters:

Transactions,—an irregular number of pages, pub. by order of the Legislature, Madison, Wis. A. N. S.

Vol. I., for 1870-72; Vol. II., 1873-74; Vol. III., 1875-76, ed. not given.

The Workshop: a monthly Journal, devoted to progress of the Useful Arts; contains 16 pages, cuts and plates, pub. in New York. 4to.

Vol. I., ———, to Vol. IX., 1876, ed. by I. Schnorr and others.

Price \$7.50 per annum.

The Young Mechanic: an illustrated monthly of 16 pages letter-press, devoted to Mathematics, Natural Philosophy, Chemistry, The Arts, Manufactures, Internal Improvements, &c., pub. in one vol. a year, Boston. 8vo.

Vol. I., 1832.

In 1834 merged into

The Mechanic: a Journal of the Useful Arts and Sciences: an illustrated monthly of 36 pages letter-press, pub. in one vol. a year, commencing January, Boston. 8vo.

Vol. I., 1834; Vol. II., 1835, ed. by F. Claxton, George W. Light and J. M. Wightman.

This Merged into "The Boston Mechanic and Journal of the Useful Arts and Sciences": monthly of 28 pages letter-press and cuts, pub. at Boston. 8vo.

Vol. IV., of Old Series, ed. by several Practical Men.

"Trade of the West." See "American Manufacturer and Iron World."

"American Manufacturer and Trade of the West." See "American Manufacturer and Iron World."

United Service Gazette. Weekly, London. Price \$10.40.

United Service Institute:

Journal. See "Royal United Service Institute.

United Service Journal and Naval and Military Magazine: pub. in London in half yearly parts of 785 pages, one vol. a year. 8vo.

Vol. for 1829, to 1831, ed. not given.

Vols. for 1832 to 1839, Pub. in three parts in each year, ed. not given.

In 1843 the title changed to "Colburn's Naval and Military Magazine," &c.

Price \$14.70 per annum.

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United States Nautical Magazine and Naval Journal. See "The Monthly Nautical Magazine and Quarterly Review."

United States Service Magazine: a monthly of 12 pages, devoted to the Military Art, (having a literary nature,) pub. in New York, in two vols. a year, commencing January and July. 8vo.

Vol. I., 1864, to Vol. V., 1866, ed by H. Coppée. At this date publication ceased.

United States Coast Survey:

Report, Annual,—issued by the United States Government, Washington, with a various number of pages, plates and maps, one vol. a year. 4to.

Vols., 1851, to 1873, ed. not given.

Universal Review of Mining, Metallurgy, &c.; being the English Edition of the "Revue Universelle des Mines," &c. London, 1874. L. C. P. I.

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Van Nostrand's Eclectic Engineering Magazine: an illustrated monthly, devoted to Engineering and allied subjects, contains 95 pages of letter-press, issued (after the first year,) in two vols. a year, commencing January and July, ed. by D. Van Nostrand, New York. 8vo.

Vol. I., 1869, to Vol. XIX., 1878.

Price \$5 00, per annum.

West of England Journal of Science and Literature: pub. quarterly, containing 88 pages letter-press and cuts, issued in one vol. a year, commencing January, 1835. Bristol. 8vo.

Vol. I., 1835, ed. not given.

P. L. A. N. S.

"Western Railroad Gazette": weekly of 24 pages, pub. in Chicago in two vols. a year, April and October. Folio

Vol. I., 1856 to Vol. XXVI., 1868, ed. by Stanley G. Fowler ; Vol. XXVII., 1869, to Vol. XXIX., 1870, ed. by A. N. Kellogg.

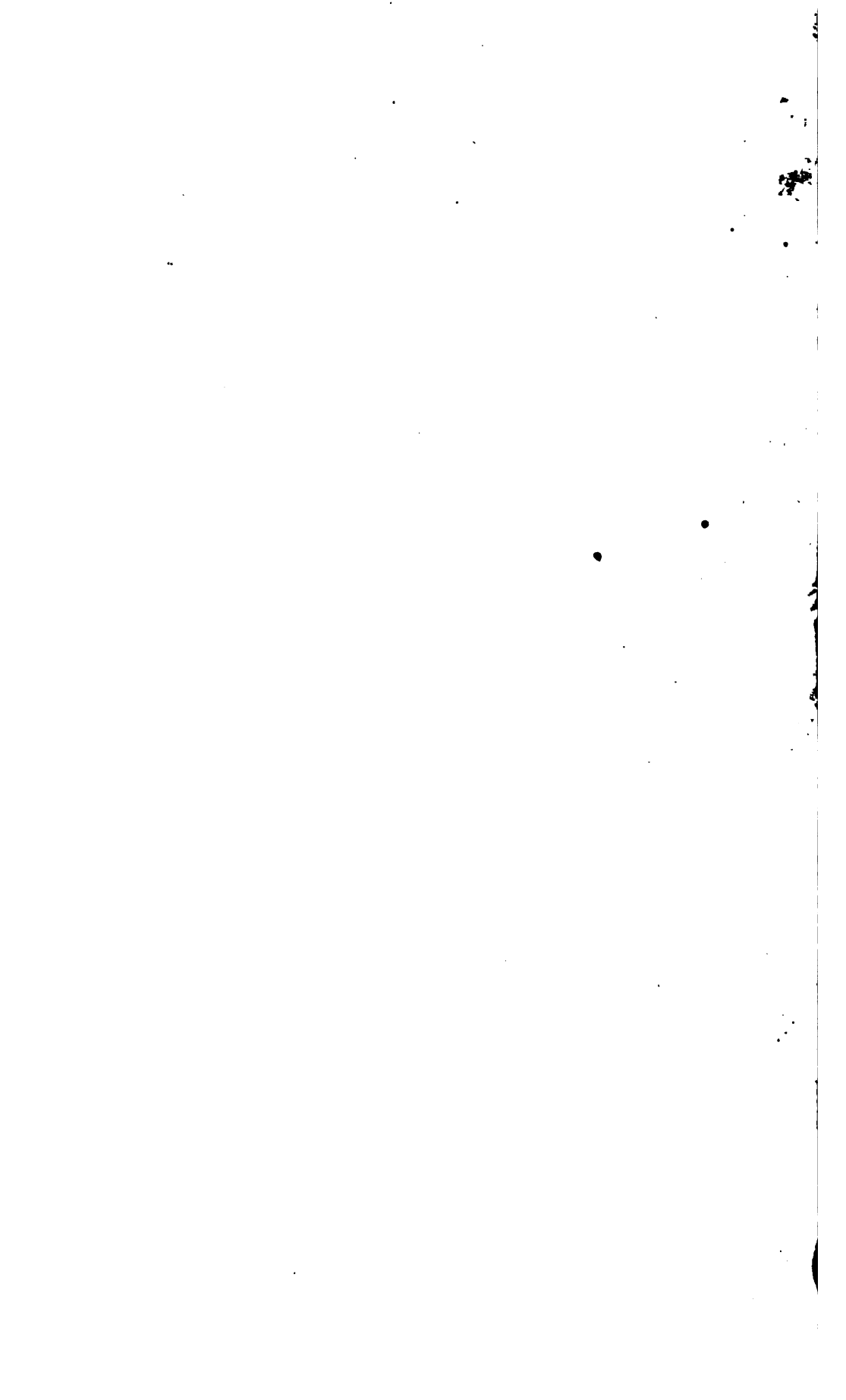
In 1870 the title changed to "Railroad Gazette": of 28 pages, pub. in Chicago, in one vol. for nine months. Folio.

Vol. I., 1870, ed. by S. W. Dunning.

In 1871, pub. in New York, ed. by S. W. Dunning and M. N. Forney.

Vol. —, 1871.

Price \$4.20 per annum.





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